

Industrial Engineering and Management - International, M Sc in Engineering

300 credits

Civilingenjör i industriell ekonomi - internationell

6CIEI

Valid from: 2016 Spring semester

Determined by Board of Studies for Industrial Engineering and Logistics

Date determined 2016-01-19

Entry requirements

Degree in Swedish

Civilingenjör 300 hp och Teknologie master 120 hp



Curriculum

Semester 2 (Spring 2017)

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|-------------------------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TATA42 | Calculus in One Variable 2 | 6 | G1X | 2 | С |
| TDDD11 | Introduction to Programming | 8* | G1X | 4 | С |
| THSP22 | Spanish for Engineers I, part 2 | 6* | G1X | 3 | С |
| Period 2 | | | | | |
| TAOP52 | Introduction to Operations Research | 4 | G1X | 3 | С |
| TATA69 | Calculus in Several Variables | 6 | G1X | 2 | С |
| TDDD11 | Introduction to Programming | 8* | G1X | 4 | С |
| THSP22 | Spanish for Engineers I, part 2 | 6* | G1X | 1 | С |

Semester 3 (Autumn 2017)

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---------------------------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| THSP41 | Spanish for Engineers II, part 1 | 6* | G1X | 4 | С |
| TKMJ51 | Corporate Sustainability Management | 6 | G1X | 2 | С |
| TMME27 | Engineering Mechanics | 10* | G1X | 3 | С |
| Period 2 | | | | | |
| TAMS79 | Mathematical Statistics, First Course | 4 | G1X | 3 | С |
| THSP41 | Spanish for Engineers II, part 1 | 6* | G1X | 4 | С |
| TMME27 | Engineering Mechanics | 10* | G1X | 1 | С |
| TPPE98 | Economic Analysis: Economic Theory | 4 | G2X | 2 | С |



Semester 4 (Spring 2018)

| Period 1TAMS65Mathematical Statistics, second course6*G2X4CTAOP62Operations Research, Extended Course6G2X3CTDDE10Object Oriented Programming in Java6G2X1ETEIO61Industrial Management6G2X1ETFB111Genetics and Evolution6G1X2ETMMV04Engineering Thermodynamics6G1X2ETMPT07Manufacturing Technology6G2X2ETSEA22Switching Theory and Logical Design6G1X2ETAMS65Mathematical Statistics, second course6*G2X2CTAMS65Mathematical Statistics, second course6*G2X2CTHSP42Spanish for Engineers II, part 22G1X4CTPPE24Economic Analysis: Decision- and Financial Methodology6G2X1ETME52Fundamentals of Chemistry6G1X1ETME544Energy Systems - Supply and Demand6G2X1ETMKT14CAD and Machine Elements6G1X4ETSRT04Introduction in Matlab2G1X4ETME544Energy Systems - Supply and Demand6G2X1ETME543Computer Hardware and Architecture4G1X4ETSRT04Introduction in Matlab2G1X1 <t< th=""><th>Course code</th><th>Course name</th><th>Credits</th><th>Level</th><th>Timetable module</th><th>ECV</th></t<> | Course code | Course name | Credits | Level | Timetable module | ECV |
|---|----------------|--|---------|-------|---------------------|-----|
| TAOP62Operations Research, Extended Course6G2X3CTDDE10Object Oriented Programming in Java6G2X1ETEIO61Industrial Management6G2X1ETFBI11Genetics and Evolution6G1X2ETMMV04Engineering Thermodynamics6G1X2ETMPT07Manufacturing Technology6G2X2ETSEA22Switching Theory and Logical Design6G1X2ETSRT04Introduction in Matlab2G1X2EPeriod 2TTAMS65Mathematical Statistics, second course6*G2X2CTHSP42Spanish for Engineers II, part 22G1X4CTPPE24Economic Analysis: Decision- and Financial Methodology6G1X1ETKE52Fundamentals of Chemistry6G1X1ETMES44Energy Systems - Supply and Demand6G2X1ETSEA82Computer Hardware and Architecture4G1X4ETSRT04Introduction in Matlab2G1X1E | Period 1 | | | | | |
| TDDE10Object Oriented Programming in Java6G2X1ETEIO61Industrial Management6G2X1ETFBI11Genetics and Evolution6G1X2ETMMV04Engineering Thermodynamics6G1X2ETMPT07Manufacturing Technology6G2X2ETSEA22Switching Theory and Logical Design6G1X2ETSRT04Introduction in Matlab2G1X2EPeriod 2TAMS65Mathematical Statistics, second course6*G2X2CTHSP42Spanish for Engineers II, part 22G1X4CTPPE24Economic Analysis: Decision- and Financial Methodology6G2X3CTAK82Discrete Mathematics6G1X1ETKE52Fundamentals of Chemistry6G1X1ETMES44Energy Systems - Supply and Demand6G2X1ETSEA82Computer Hardware and Architecture4G1X4ETSRT04Introduction in Matlab2G1X1E | TAMS65 | Mathematical Statistics, second course | 6* | G2X | 4 | С |
| TEIO61Industrial Management6G2X1ETFBI11Genetics and Evolution6G1X2ETMMV04Engineering Thermodynamics6G1X2ETMPT07Manufacturing Technology6G2X2ETSEA22Switching Theory and Logical Design6G1X2ETSRT04Introduction in Matlab2G1X2EPeriod 2TAMS65Mathematical Statistics, second course6*G2X2CTHSP42Spanish for Engineers II, part 22G1X4CTPPE24Economic Analysis: Decision- and Financial Methodology6G1X1ETFKE52Fundamentals of Chemistry6G1X1ETMES44Energy Systems - Supply and Demand6G2X1ETSEA82Computer Hardware and Architecture4G1X4ETSRT04Introduction in Matlab2G1X1E | TAOP62 | Operations Research, Extended Course | 6 | G2X | 3 | С |
| TFBI11Genetics and Evolution6G1X2ETMMV04Engineering Thermodynamics6G1X2ETMPT07Manufacturing Technology6G2X2ETSEA22Switching Theory and Logical Design6G1X2ETSRT04Introduction in Matlab2G1X2EPeriod 2 </td <td>TDDE10</td> <td>Object Oriented Programming in Java</td> <td>6</td> <td>G2X</td> <td>1</td> <td>E</td> | TDDE10 | Object Oriented Programming in Java | 6 | G2X | 1 | E |
| TMMV04Engineering Thermodynamics6G1X2ETMPT07Manufacturing Technology6G2X2ETSEA22Switching Theory and Logical Design6G1X2ETSEA22Switching Theory and Logical Design6G1X2ETSRT04Introduction in Matlab2G1X2EPeriod 2TAMS65Mathematical Statistics, second course6*G2X2CTHSP42Spanish for Engineers II, part 22G1X4CTPPE24Economic Analysis: Decision- and Financial Methodology6G1X1ETFKE52Fundamentals of Chemistry6G1X1ETMES44Energy Systems - Supply and Demand6G2X1ETSEA82Computer Hardware and Architecture4G1X4ETSRT04Introduction in Matlab2G1X1E | TEIO61 | Industrial Management | 6 | G2X | 1 | E |
| TMPT07Manufacturing Technology6G2X2ETSEA22Switching Theory and Logical Design6G1X2ETSRT04Introduction in Matlab2G1X2EPeriod 2TAMS65Mathematical Statistics, second course6*G2X2CTHSP42Spanish for Engineers II, part 22G1X4CTPPE24Economic Analysis: Decision- and Financial Methodology6G1X1ETFKE52Fundamentals of Chemistry6G1X1ETMES44Energy Systems - Supply and Demand6G2X1ETSEA82Computer Hardware and Architecture4G1X4ETSRT04Introduction in Matlab2G1X1E | TFBI11 | Genetics and Evolution | 6 | G1X | 2 | E |
| TSEA22Switching Theory and Logical Design6G1X2ETSEA21Switching Theory and Logical Design6G1X2ETSRT04Introduction in Matlab2G1X2EPeriod 2TAMS65Mathematical Statistics, second course6*G2X2CTHSP42Spanish for Engineers II, part 22G1X4CTPPE24Economic Analysis: Decision- and Financial Methodology6G2X3CTATA82Discrete Mathematics6G1X1ETFKE52Fundamentals of Chemistry6G1X1ETMKT14CAD and Machine Elements6G2X1ETSEA82Computer Hardware and Architecture4G1X4ETSRT04Introduction in Matlab2G1X1E | TMMV04 | Engineering Thermodynamics | 6 | G1X | 2 | E |
| TSRT04Introduction in Matlab2G1X2EPeriod 2TAMS65Mathematical Statistics, second course6*G2X2CTHSP42Spanish for Engineers II, part 22G1X4CTPPE24Economic Analysis: Decision- and Financial Methodology6G2X3CTATA82Discrete Mathematics6G1X1ETFKE52Fundamentals of Chemistry6G1X1ETMES44Energy Systems - Supply and Demand6G2X1ETSEA82Computer Hardware and Architecture4G1X4ETSRT04Introduction in Matlab2G1X1E | TMPT07 | Manufacturing Technology | 6 | G2X | 2 | E |
| Period 2TAMS65Mathematical Statistics, second course6*G2X2CTHSP42Spanish for Engineers II, part 22G1X4CTPPE24Economic Analysis: Decision- and Financial Methodology6G2X3CTATA82Discrete Mathematics6G1X1ETFKE52Fundamentals of Chemistry6G1X1ETMES44Energy Systems - Supply and Demand6G2X1ETMKT14CAD and Machine Elements6G1X4ETSEA82Computer Hardware and Architecture4G1X4ETSRT04Introduction in Matlab2G1X1E | TSEA22 | Switching Theory and Logical Design | 6 | G1X | 2 | E |
| TAMS65Mathematical Statistics, second course6*G2X2CTHSP42Spanish for Engineers II, part 22G1X4CTPPE24Economic Analysis: Decision- and Financial Methodology6G2X3CTATA82Discrete Mathematics6G1X1ETFKE52Fundamentals of Chemistry6G1X1ETMES44Energy Systems - Supply and Demand6G2X1ETMKT14CAD and Machine Elements6G1X4ETSEA82Computer Hardware and Architecture4G1X4ETSRT04Introduction in Matlab2G1X1E | TSRT04 | Introduction in Matlab | 2 | G1X | 2 | E |
| THREEInterferenceConstructionConstructionConstructionConstructionConstructionTHSP42Spanish for Engineers II, part 22G1X4CTPPE24Economic Analysis: Decision- and Financial Methodology6G2X3CTATA82Discrete Mathematics6G1X1ETFKE52Fundamentals of Chemistry6G1X1ETMES44Energy Systems - Supply and Demand6G2X1ETMKT14CAD and Machine Elements6G2X1ETSEA82Computer Hardware and Architecture4G1X4ETSRT04Introduction in Matlab2G1X1E | Period 2 | | | | | |
| TPPE24Economic Analysis: Decision- and Financial Methodology6G2X3CTATA82Discrete Mathematics6G1X1ETFKE52Fundamentals of Chemistry6G1X1ETMES44Energy Systems - Supply and Demand6G2X1ETMKT14CAD and Machine Elements6G2X1ETSEA82Computer Hardware and Architecture4G1X4ETSRT04Introduction in Matlab2G1X1E | TAMS65 | Mathematical Statistics, second course | 6* | G2X | 2 | С |
| IPPE24Methodology6G2X3CTATA82Discrete Mathematics6G1X1ETFKE52Fundamentals of Chemistry6G1X1ETMES44Energy Systems - Supply and Demand6G2X1ETMKT14CAD and Machine Elements6G2X1ETSEA82Computer Hardware and Architecture4G1X4ETSRT04Introduction in Matlab2G1X1E | THSP42 | Spanish for Engineers II, part 2 | 2 | G1X | 4 | С |
| TFKE52Fundamentals of Chemistry6G1X1ETMES44Energy Systems - Supply and Demand6G2X1ETMKT14CAD and Machine Elements6G2X1ETSEA82Computer Hardware and Architecture4G1X4ETSRT04Introduction in Matlab2G1X1E | TPPE24 | | 6 | G2X | 3 | С |
| TMES44Energy Systems - Supply and Demand6G2X1ETMKT14CAD and Machine Elements6G2X1ETSEA82Computer Hardware and Architecture4G1X4ETSRT04Introduction in Matlab2G1X1E | TATA82 | Discrete Mathematics | 6 | G1X | 1 | E |
| TMKT14CAD and Machine Elements6G2X1ETSEA82Computer Hardware and Architecture4G1X4ETSRT04Introduction in Matlab2G1X1E | TFKE52 | Fundamentals of Chemistry | 6 | G1X | 1 | E |
| TSEA82Computer Hardware and Architecture4G1X4ETSRT04Introduction in Matlab2G1X1E | TMES44 | Energy Systems - Supply and Demand | 6 | G2X | 1 | E |
| TSRT04 Introduction in Matlab 2 G1X 1 E | TMKT14 | CAD and Machine Elements | 6 | G2X | 1 | E |
| | TSEA82 | Computer Hardware and Architecture | 4 | G1X | 4 | E |
| TPTE06 Industrial Placement 6 G1X - V | TSRT04 | Introduction in Matlab | 2 | G1X | 1 | E |
| | TPTE06 | Industrial Placement | 6 | G1X | - | V |

Specialisation: Specialization Biotechnical Engineering

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---------------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TFBI11 | Genetics and Evolution | 6 | G1X | 2 | С |
| Period 2 | | | | | |
| TFKE52 | Fundamentals of Chemistry | 6 | G1X | 1 | С |
| - | | | | | |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|-------------------------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TDDE10 | Object Oriented Programming in Java | 6 | G2X | 1 | С |
| Period 2 | | | | | |
| TATA82 | Discrete Mathematics | 6 | G1X | 1 | С |

Specialisation: Specialization Computer Science and Engineering

| | Specialisation: Specialization Electrical Engineering | | | | | | |
|----------------|---|---------|-------|---------------------|-----|--|--|
| Course code | Course name | Credits | Level | Timetable module | ECV | | |
| Period 1 | | | | | | | |
| TSEA22 | Switching Theory and Logical Design | 6 | G1X | 2 | С | | |
| Period 2 | | | | | | | |
| TSEA82 | Computer Hardware and Architecture | 4 | G1X | 4 | С | | |

Specialisation: Specialization Electrical Engineering

Specialisation: Specialization Energy Engineering

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|------------------------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TMMV04 | Engineering Thermodynamics | 6 | G1X | 2 | С |
| Period 2 | | | | | |
| TMES44 | Energy Systems - Supply and Demand | 6 | G2X | 1 | С |
| | | | | | |

Specialisation: Specialization Mechanical Engineering

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--------------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TMPT07 | Manufacturing Technology | 6 | G2X | 2 | С |
| Period 2 | | | | | |
| TMKT14 | CAD and Machine Elements | 6 | G2X | 1 | С |

Semester 5 (Autumn 2018)



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TPPE13 | Production and Operations Management | 6 | G2X | 1 | С |
| TSRT22 | Automatic Control | 6 | G2X | 4 | С |
| TDDE18 | Programming C++ | 6* | G2X | 2 | E |
| TDDE22 | Data Structures and Algorithms | 6 | G2X | 3 | E |
| TEIO91 | Project Management | 6* | G2X | - | E |
| TFBI22 | Cell Biology and Microbial Processes | 6 | G1X | 3 | E |
| TMHL22 | Solid Mechanics | 6 | G2X | 3 | E |
| TMKM86 | Engineering Materials | 6* | G2X | 4 | E |
| TMMV11 | Fluid Mechanics and Heat Transfer | 6 | G2X | 2 | E |
| TMMV57 | Applied Energy Engineering | 6* | G2X | 3 | E |
| TSDT84 | Signals and Systems, and Transform Theory | 8* | G2X | 4 | E |
| TSEA52 | Switching Theory and Logical Design | 6* | G1X | 2 | E |
| TSTE95 | Electronics | 4 | G1X | 3 | E |
| Period 2 | | | | | |
| TEIO04 | Project Management | 6 | G2X | 2 | С |
| NBIB45 | Principles in Physiology and Ethics | 6 | G1X | 1 | E |
| TDDE18 | Programming C++ | 6* | G2X | 1 | E |
| TDTS10 | Computer Architecture | 6 | G1X | 3 | E |
| TEIM03 | Intercultural Communication | 4 | G1X | 4 | E |
| TEIO91 | Project Management | 6* | G2X | - | E |
| TKMJ35 | Industrial Ecology | 6 | G2F | 3 | E |
| TKMJ39 | Resource Efficient Products and Production | 6 | G2F | 1 | E |
| TMKM86 | Engineering Materials | 6* | G2X | 4 | E |
| TMMI46 | Industrial Automation | 6 | G2X | 3 | E |
| TMMV57 | Applied Energy Engineering | 6* | G2X | 3 | E |
| TSDT84 | Signals and Systems, and Transform Theory | 8* | G2X | 3 | E |
| TSEA52 | Switching Theory and Logical Design | 6* | G1X | 4 | E |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--------------------------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TFBI22 | Cell Biology and Microbial Processes | 6 | G1X | 3 | С |
| Period 2 | | | | | |
| NBIB45 | Principles in Physiology and Ethics | 6 | G1X | 1 | С |
| TKMJ35 | Industrial Ecology | 6 | G2F | 3 | E |

Specialisation: Specialization Biotechnical Engineering

Specialisation: Specialization Computer Science and Engineering

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|-------------------------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TSEA52 | Switching Theory and Logical Design | 6* | G1X | 2 | С |
| TDDE22 | Data Structures and Algorithms | 6 | G2X | 3 | E |
| Period 2 | | | | | |
| TDTS10 | Computer Architecture | 6 | G1X | 3 | С |
| TSEA52 | Switching Theory and Logical Design | 6* | G1X | 4 | С |

Specialisation: Specialization Electrical Engineering

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TDDE18 | Programming C++ | 6* | G2X | 2 | С |
| TSDT84 | Signals and Systems, and Transform Theory | 8* | G2X | 4 | С |
| TSTE95 | Electronics | 4 | G1X | 3 | E |
| Period 2 | | | | | |
| TDDE18 | Programming C++ | 6* | G2X | 1 | С |
| TSDT84 | Signals and Systems, and Transform Theory | 8* | G2X | 3 | С |
| | | | | | |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TMMV11 | Fluid Mechanics and Heat Transfer | 6 | G2X | 2 | С |
| TMMV57 | Applied Energy Engineering | 6* | G2X | 3 | С |
| Period 2 | | | | | |
| TMMV57 | Applied Energy Engineering | 6* | G2X | 3 | С |
| ТКМЈЗ9 | Resource Efficient Products and Production | 6 | G2F | 1 | E |

Specialisation: Specialization Energy Engineering

Specialisation: Specialization Mechanical Engineering

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|-----------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TMHL22 | Solid Mechanics | 6 | G2X | 3 | С |
| TMKM86 | Engineering Materials | 6* | G2X | 4 | С |
| Period 2 | | | | | |
| TMKM86 | Engineering Materials | 6* | G2X | 4 | С |
| TMMI46 | Industrial Automation | 6 | G2X | 3 | E |

Semester 6 (Spring 2019)



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TEIM32 | Industrial Marketing | 6 | G2X | 4 | С |
| TDDD81 | Database Technology | 6* | G2X | 2 | E |
| TDDD83 | Computer Engineering - Bachelor Project | 18* | G2X | 1/3 | E |
| TFBI23 | Ecology and the Environment | 6 | G1X | 3 | E |
| TFBI24 | Biotechnology - Bachelor Project | 18* | G2X | 2 | E |
| TFYA89 | Natural Sciences for Engineers - Principles and Applications | 6* | G2X | - | E |
| TMMV04 | Engineering Thermodynamics | 6 | G1X | 2 | E |
| TMMV16 | Energy Engineering - Bachelor Project | 18* | G2X | 3 | E |
| TMMV58 | Modelling and Simulation of Energy and Heat Transfer Processes | 6 | G2X | 1 | E |
| TMPS32 | Mechanical Engineering - Bachelor Project | 18* | G2X | 3 | E |
| TSBB18 | Embedded Perception Systems | 6 | G2X | 3 | E |
| TSEA56 | Electronics Engineering - Bachelor Project | 16* | G2X | 2 | E |
| Period 2 | | | | | |
| TDDD12 | Database Technology | 6 | G2X | 4 | E |
| TDDD81 | Database Technology | 6* | G2X | 4 | E |
| TDDD83 | Computer Engineering - Bachelor Project | 18* | G2X | 1/3 | E |
| TFBI24 | Biotechnology - Bachelor Project | 18* | G2X | 2/3/4 | E |
| TFYA89 | Natural Sciences for Engineers - Principles and Applications | 6* | G2X | - | E |
| TMMV16 | Energy Engineering - Bachelor Project | 18* | G2X | 3 | E |
| TMPS32 | Mechanical Engineering - Bachelor Project | 18* | G2X | 3 | E |
| TSEA56 | Electronics Engineering - Bachelor Project | 16* | G2X | - | E |
| TSKS10 | Signals, Information and Communication | 4 | G2X | 3 | E |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|----------------------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TFBI23 | Ecology and the Environment | 6 | G1X | 3 | С |
| TFBI24 | Biotechnology - Bachelor Project | 18* | G2X | 2 | E |
| Period 2 | | | | | |
| TFBI24 | Biotechnology - Bachelor Project | 18* | G2X | 2/3/4 | E |

Specialisation: Specialization Biotechnical Engineering

| Specialisation: | Specialization | Computer | Science and | l Engineering |
|-----------------|----------------|----------|-------------|---------------|
| - <u>r</u> | - r | T | | |

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TDDD81 | Database Technology | 6* | G2X | 2 | Е |
| TDDD83 | Computer Engineering - Bachelor Project | 18* | G2X | 1/3 | E |
| Period 2 | | | | | |
| TDDD12 | Database Technology | 6 | G2X | 4 | С |
| TDDD81 | Database Technology | 6* | G2X | 4 | E |
| TDDD83 | Computer Engineering - Bachelor Project | 18* | G2X | 1/3 | E |

Specialisation: Specialization Electrical Engineering

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TSBB18 | Embedded Perception Systems | 6 | G2X | 3 | С |
| TSEA56 | Electronics Engineering - Bachelor Project | 16* | G2X | 2 | E |
| Period 2 | | | | | |
| TSKS10 | Signals, Information and Communication | 4 | G2X | 3 | С |
| TSEA56 | Electronics Engineering - Bachelor Project | 16* | G2X | - | E |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TMMV58 | Modelling and Simulation of Energy and Heat Transfer Processes | 6 | G2X | 1 | С |
| TMMV16 | Energy Engineering - Bachelor Project | 18* | G2X | 3 | E |
| Period 2 | | | | | |
| TMMV16 | Energy Engineering - Bachelor Project | 18* | G2X | 3 | E |
| | | | | | |

Specialisation: Specialization Energy Engineering

Specialisation: Specialization Mechanical Engineering

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TMMV04 | Engineering Thermodynamics | 6 | G1X | 2 | С |
| TMPS32 | Mechanical Engineering - Bachelor Project | 18* | G2X | 3 | E |
| Period 2 | | | | | |
| TMPS32 | Mechanical Engineering - Bachelor Project | 18* | G2X | 3 | E |
| | | | | | |

Semester 7 (Autumn 2019)

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| THSP18 | Spanish for Engineers III | 6* | G2X | - | С |
| TAMS32 | Stochastic Processes | 6 | A1X | 1 | E |
| TAMS46 | Probability Theory, Second Course | 6 | A1X | 3 | E |
| TANA21 | Scientific Computing | 6 | G1X | 3 | E |
| TAOP34 | Large Scale Optimization | 6 | A1X | 3 | E |
| TATA34 | Real Analysis, Honours Course | 6* | G2X | 4 | E |
| TATA44 | Vector Analysis | 4 | G1X | 1 | E |
| TATM38 | Mathematical Models in Biology | 6 | A1X | 3 | E |
| TDDC17 | Artificial Intelligence | 6 | G2X | 3 | E |
| TDDC88 | Software Engineering | 12* | A1X | 1 | E |
| TDDD23 | Design and Programming of Computer Games | 6 | A1X | 2 | E |
| TDDD38 | Advanced Programming in C++ | 6* | A1X | 2 | E |
| TDDD43 | Advanced Data Models and Databases | 6* | A1X | 2 | E |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| TDDE18 | Programming C++ | 6* | G2X | 2 | E |
| TDEI13 | Enterprise Resource Planning Systems: Process and Implementation | 6 | A1X | 2 | E |
| TDEI72 | Strategy and Digitisation - Technology, Standards and Network Effects | 6 | A1X | 4 | E |
| TEIE72 | Corporate Strategies | 6 | A1X | 4 | E |
| TEIO07 | Project Based Organization and Management | 6 | A1X | 4 | E |
| TEIO90 | Innovation Management | 6 | A1X | 2 | E |
| TETS23 | Purchasing | 6 | A1X | 2 | E |
| TETS37 | Basics in Logistics Management | 6 | G2X | 4 | E |
| TKMJ14 | Large Technical Systems and the Environment | 6 | A1X | 4 | E |
| TKMJ31 | Biofuels for Transportation | 6 | A1N | 1 | E |
| TKMJ49 | Environmentally Driven Business Development | 6* | A1N | 3 | E |
| TMES09 | Industrial Energy Systems | 6 | A1X | 3 | E |
| TMES27 | Modelling of Energy Systems | 6 | A1X | 3 | E |
| TMKM16 | Sustainable Material Selection | 6 | A1X | 4 | E |
| TMKT80 | Wood - Material | 6 | G2X | 2 | E |
| TMPS33 | Virtual Manufacturing | 6 | A1X | 4 | E |
| TMPS35 | Emerging Factory Technologies | 6 | A1X | 3 | E |
| ТМРТ03 | Production Engineering - Continuing Course | 6 | G2X | 2 | E |
| TMQU03 | Quality Management and Engineering | 6 | G2X | 2 | E |
| TPPE16 | Manufacturing Strategies | 6 | A1X | 2 | E |
| TPPE17 | Corporate Finance | 6 | G2X | 4 | E |
| TSBB06 | Multidimensional Signal Analysis | 6* | A1X | 2 | E |
| TSBB08 | Digital Image Processing | 6 | A1X | 4 | E |
| TSDT14 | Signal Theory | 6 | A1X | 1 | E |
| TSKS01 | Digital Communication | 6* | A1X | 4 | E |
| TSKS15 | Detection and Estimation of Signals | 6 | A1X | 2 | E |
| TSRT62 | Modelling and Simulation | 6 | A1X | 3 | E |
| Period 2 | | | | | |
| THSP18 | Spanish for Engineers III | 6* | G2X | - | С |
| NBID31 | Modelling of Biological Systems | 6 | A1X | 3/4 | E |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| TAOP04 | Mathematical Optimization | 6 | A1X | 4 | E |
| TATA34 | Real Analysis, Honours Course | 6* | G2X | 4 | E |
| TATA45 | Complex Analysis | 6 | G2X | 1 | E |
| TDDC88 | Software Engineering | 12* | A1X | 1 | E |
| TDDD07 | Real Time Systems | 6 | A1X | 4 | E |
| TDDD38 | Advanced Programming in C++ | 6* | A1X | - | E |
| TDDD43 | Advanced Data Models and Databases | 6* | A1X | 2 | E |
| TDDE01 | Machine Learning | 6 | A1X | 1 | E |
| TDDE18 | Programming C++ | 6* | G2X | 1 | E |
| TDEI19 | Management Control | 6 | A1X | 2 | E |
| TDEI21 | Strategic Organisational Application of IT - Workflow and Knowledge Management | 6 | A1X | 4 | E |
| TEIE42 | Industrial Sales Management | 6 | A1X | 4 | E |
| TEIM10 | Industrial Service Development | 6 | A1X | 2 | E |
| TETS27 | Supply Chain Logistics | 6 | A1X | 2 | E |
| TFBI17 | Advanced Project Course in Ecosystem Service Valuation | 6 | A1X | - | E |
| TFYA96 | The physics behind technology | 6 | G2X | 4 | E |
| TKMJ35 | Industrial Ecology | 6 | G2F | 3 | E |
| TKMJ49 | Environmentally Driven Business Development | 6* | A1N | 3 | E |
| TMES45 | Energy Planning and Modelling of Communities | 6 | A1X | 4 | E |
| TMHL63 | Introduction to Computational Mechanics | 6 | G2X | 3 | Е |
| TMHP03 | Engineering Systems Design | 6 | A1X | 4 | Е |
| ТМКМ90 | Engineering Materials - Deformation and Fracture | 6 | A1X | 2 | E |
| TMKT71 | Affective Engineering | 6 | A1X | 2 | E |
| TMKT81 | Wood - Realisation | 6 | G2X | 1 | E |
| TMKU02 | Wood - Realisation | 6 | G2X | 1 | E |
| TMMV18 | Fluid Mechanics | 6 | A1X | 2 | E |
| TMPS22 | Assembly Technology | 6 | A1X | 3 | E |
| TMPS31 | Sustainable Manufacturing | 6 | A1X | 1 | E |
| TMQU12 | Lean Production | 6 | A1X | 2 | E |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| TPPE29 | Financial Markets and Instruments | 6 | A1X | 2 | E |
| TPPE76 | Operations Planning and Control | 6 | A1X | 4 | E |
| TSBB06 | Multidimensional Signal Analysis | 6* | A1X | 3 | E |
| TSBB09 | Image Sensors | 6 | A1X | 4 | E |
| TSEA81 | Computer Engineering and Real-time Systems | 6 | A1X | 4 | Е |
| TSIT02 | Computer Security | 6 | G2X | 2 | E |
| TSKS01 | Digital Communication | 6* | A1X | 4 | E |
| TSKS11 | Networks: Models, Algorithms and Applications | 6 | G2X | 3 | E |
| TSRT78 | Digital Signal Processing | 6 | A1X | 2 | E |

Specialisation: Master Profile Automatic Control

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TSDT14 | Signal Theory | 6 | A1X | 1 | С |
| TSRT62 | Modelling and Simulation | 6 | A1X | 3 | С |
| Period 2 | | | | | |
| TSEA81 | Computer Engineering and Real-time Systems | 6 | A1X | 4 | E |
| TSRT78 | Digital Signal Processing | 6 | A1X | 2 | E |
| | | | | | |

Specialisation: Master Profile Computer Science and Engineering

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|----------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TDDC88 | Software Engineering | 12* | A1X | 1 | С |
| Period 2 | | | | | |
| TDDC88 | Software Engineering | 12* | A1X | 1 | С |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TDEI72 | Strategy and Digitisation - Technology, Standards and Network Effects | 6 | A1X | 4 | С |
| TDEI13 | Enterprise Resource Planning Systems: Process and Implementation | 6 | A1X | 2 | E |
| Period 2 | | | | | |
| TDEI21 | Strategic Organisational Application of IT - Workflow and Knowledge Management | 6 | A1X | 4 | С |
| TDEI19 | Management Control | 6 | A1X | 2 | E |

Specialisation: Master Profile Digitisation and Management

Specialisation: Master Profile Energy Engineering

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|-----------------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TMES09 | Industrial Energy Systems | 6 | A1X | 3 | E |
| TMES27 | Modelling of Energy Systems | 6 | A1X | 3 | E |
| Period 2 | | | | | |
| TMMV18 | Fluid Mechanics | 6 | A1X | 2 | E |

Specialisation: Master Profile Finance

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|-----------------------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TPPE17 | Corporate Finance | 6 | G2X | 4 | E |
| Period 2 | | | | | |
| TPPE29 | Financial Markets and Instruments | 6 | A1X | 2 | С |

Specialisation: Master Profile Industrial Marketing

| Course name | Credits | Level | Timetable module | ECV |
|--------------------------------|---|---|--|--|
| | | | | |
| Corporate Strategies | 6 | A1X | 4 | E |
| | | | | |
| Industrial Sales Management | 6 | A1X | 4 | C/E |
| Industrial Service Development | 6 | A1X | 2 | C/E |
| | Corporate Strategies Industrial Sales Management | Corporate Strategies 6 Industrial Sales Management 6 | Corporate Strategies 6 A1X Industrial Sales Management 6 A1X | Course name Credits Level Imodule Corporate Strategies 6 A1X 4 Industrial Sales Management 6 A1X 4 |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--------------------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TETS37 | Basics in Logistics Management | 6 | G2X | 4 | С |
| TETS23 | Purchasing | 6 | A1X | 2 | E |
| Period 2 | | | | | |
| TETS27 | Supply Chain Logistics | 6 | A1X | 2 | C/E |

Specialisation: Master Profile Logistics Management

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TMPS33 | Virtual Manufacturing | 6 | A1X | 4 | E |
| TMPS35 | Emerging Factory Technologies | 6 | A1X | 3 | E |
| TMPT03 | Production Engineering - Continuing Course | 6 | G2X | 2 | E |
| Period 2 | | | | | |
| TMPS22 | Assembly Technology | 6 | A1X | 3 | С |
| TMPS31 | Sustainable Manufacturing | 6 | A1X | 1 | E |

Specialisation: Master Profile Manufacturing

Specialisation: Master Profile Operations Management

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---------------------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TPPE16 | Manufacturing Strategies | 6 | A1X | 2 | С |
| Period 2 | | | | | |
| TPPE76 | Operations Planning and Control | 6 | A1X | 4 | E |

Specialisation: Master Profile Product Development

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|----------------------------|---------|-------|---------------------|-----|
| Period 2 | | | | | |
| TMHP03 | Engineering Systems Design | 6 | A1X | 4 | E |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TEIO90 | Innovation Management | 6 | A1X | 2 | С |
| TEIO07 | Project Based Organization and Management | 6 | A1X | 4 | E |
| TKMJ49 | Environmentally Driven Business Development | 6* | A1N | 3 | E |
| Period 2 | | | | | |
| TKMJ49 | Environmentally Driven Business Development | 6* | A1N | 3 | E |

Specialisation: Master Profile Project, Innovation and Entrepreneurship

Specialisation: Master Profile Quality Technology and Management

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|------------------------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TMQU03 | Quality Management and Engineering | 6 | G2X | 2 | С |
| Period 2 | | | | | |
| TMQU12 | Lean Production | 6 | A1X | 2 | E |

Specialisation: Master Profile Signal and Image Processing

| Course name | Credits | Level | Timetable | ECV |
|----------------------------------|--|--|--|--|
| | | | module | |
| | | | | |
| Digital Image Processing | 6 | A1X | 4 | С |
| Signal Theory | 6 | A1X | 1 | С |
| Multidimensional Signal Analysis | 6* | A1X | 2 | E |
| | | | | |
| Multidimensional Signal Analysis | 6* | A1X | 3 | E |
| Image Sensors | 6 | A1X | 4 | E |
| Digital Signal Processing | 6 | A1X | 2 | E |
| | Digital Image Processing Signal Theory Multidimensional Signal Analysis Multidimensional Signal Analysis Image Sensors | Digital Image Processing 6 Signal Theory 6 Multidimensional Signal Analysis 6* Multidimensional Signal Analysis 6* Image Sensors 6 | Digital Image Processing6A1XSignal Theory6A1XMultidimensional Signal Analysis6*A1XMultidimensional Signal Analysis6*A1XImage Sensors6A1X | Course nameCreditsLevelImmoduleDigital Image Processing6A1X4Signal Theory6A1X1Multidimensional Signal Analysis6*A1X2Multidimensional Signal Analysis6*A1X3Image Sensors6A1X4 |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TEIE72 | Corporate Strategies | 6 | A1X | 4 | С |
| TEIO90 | Innovation Management | 6 | A1X | 2 | E |
| TKMJ49 | Environmentally Driven Business Development | 6* | A1N | 3 | E |
| TPPE16 | Manufacturing Strategies | 6 | A1X | 2 | E |
| Period 2 | | | | | |
| TDEI19 | Management Control | 6 | A1X | 2 | С |
| TDEI21 | Strategic Organisational Application of IT - Workflow and Knowledge Management | 6 | A1X | 4 | E |
| TEIE42 | Industrial Sales Management | 6 | A1X | 4 | E |
| TKMJ49 | Environmentally Driven Business Development | 6* | A1N | 3 | E |

Specialisation: Master Profile Strategic Management and Control

Specialisation: Master Profile Telecommunication

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|-------------------------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TSDT14 | Signal Theory | 6 | A1X | 1 | С |
| TSKS01 | Digital Communication | 6* | A1X | 4 | С |
| TSKS15 | Detection and Estimation of Signals | 6 | A1X | 2 | E |
| Period 2 | | | | | |
| TSKS01 | Digital Communication | 6* | A1X | 4 | С |

Specialisation: Master Profile Wood Technology

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--------------------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TMKT80 | Wood - Material | 6 | G2X | 2 | С |
| TMKM16 | Sustainable Material Selection | 6 | A1X | 4 | E |
| Period 2 | | | | | |
| TMKT81 | Wood - Realisation | 6 | G2X | 1 | С |
| TMKU02 | Wood - Realisation | 6 | G2X | 1 | С |
| | | | | | |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TATM38 | Mathematical Models in Biology | 6 | A1X | 3 | E |
| TKMJ31 | Biofuels for Transportation | 6 | A1N | 1 | E |
| Period 2 | | | | | |
| NBID31 | Modelling of Biological Systems | 6 | A1X | 3/4 | С |
| TFBI17 | Advanced Project Course in Ecosystem Service Valuation | 6 | A1X | - | E |
| TKMJ35 | Industrial Ecology | 6 | G2F | 3 | E |

Specialisation: Specialization Biotechnical Engineering

Specialisation: Specialization Computer Science and Engineering

| | 1 1 1 | | 5 | 5 | |
|----------------|---|---------|-------|---------------------|-----|
| Course code | Course name | Credits | Level | Timetable module | ECV |
| Period 1 | | | | | |
| TDDC88 | Software Engineering | 12* | A1X | 1 | С |
| 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 |
| TDDE18 | Programming C++ | 6* | G2X | 2 | E |
| Period 2 | | | | | |
| TDDC88 | Software Engineering | 12* | A1X | 1 | С |
| TDDD38 | Advanced Programming in C++ | 6* | A1X | - | E |
| TDDE01 | Machine Learning | 6 | A1X | 1 | E |
| TDDE18 | Programming C++ | 6* | G2X | 1 | E |
| TSIT02 | Computer Security | 6 | G2X | 2 | E |
| TSKS11 | Networks: Models, Algorithms and Applications | 6 | G2X | 3 | E |
| | | | | | |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TSBB06 | Multidimensional Signal Analysis | 6* | A1X | 2 | E |
| TSBB08 | Digital Image Processing | 6 | A1X | 4 | E |
| TSDT14 | Signal Theory | 6 | A1X | 1 | E |
| TSKS01 | Digital Communication | 6* | A1X | 4 | E |
| TSKS15 | Detection and Estimation of Signals | 6 | A1X | 2 | E |
| TSRT62 | Modelling and Simulation | 6 | A1X | 3 | E |
| Period 2 | | | | | |
| TSBB06 | Multidimensional Signal Analysis | 6* | A1X | 3 | E |
| TSBB09 | Image Sensors | 6 | A1X | 4 | E |
| TSEA81 | Computer Engineering and Real-time Systems | 6 | A1X | 4 | E |
| TSIT02 | Computer Security | 6 | G2X | 2 | E |
| TSKS01 | Digital Communication | 6* | A1X | 4 | E |
| TSKS11 | Networks: Models, Algorithms and Applications | 6 | G2X | 3 | E |
| TSRT78 | Digital Signal Processing | 6 | A1X | 2 | E |

Specialisation: Specialization Electrical Engineering

Specialisation: Specialization Energy Engineering

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TKMJ14 | Large Technical Systems and the Environment | 6 | A1X | 4 | E |
| TMES09 | Industrial Energy Systems | 6 | A1X | 3 | E |
| TMES27 | Modelling of Energy Systems | 6 | A1X | 3 | E |
| Period 2 | | | | | |
| TMES45 | Energy Planning and Modelling of Communities | 6 | A1X | 4 | E |
| TMMV18 | Fluid Mechanics | 6 | A1X | 2 | E |



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| 3 | E |
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| | |
| 4 | E |
| 2 | E |
| 2 | E |
| 1 | E |
| 1 | E |
| 3 | E |
| 1 | E |
| | 4 3 2 4 2 2 1 1 3 |

Specialisation: Specialization Mechanical Engineering

Semester 8 (Spring 2020)

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TEIE06 | Corporate Planning | 6* | A1X | - | С |
| NBIC50 | Ecotoxicology and Environmental Monitoring | 6 | G2X | 1 | E |
| TAMS29 | Stochastic Processes Applied to Financial Models | 6 | A1X | 3 | E |
| TATA53 | Linear Algebra, Honours Course | 6* | G2X | - | E |
| TBMI26 | Neural Networks and Learning Systems | 6 | A1X | 2 | E |
| TDDB68 | Concurrent Programming and Operating Systems | 6 | G2X | 3 | E |
| TDDD17 | Information Security, Second Course | 6* | A1X | 4 | E |
| TDDD20 | Design and Analysis of Algorithms | 6 | A1X | 3 | E |
| TDDD38 | Advanced Programming in C++ | 6* | A1X | 2 | E |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| TDDD41 | Data Mining - Clustering and Association Analysis | 6 | A1X | 3 | E |
| TDDD51 | Service Design and Innovation | 6 | A1X | 4 | E |
| TDDD57 | Physical Interaction and Game Programming | 6 | A1X | 1 | E |
| TDDD75 | Effect-Driven Development and Human- Centered Design of Interactive Systems | 6 | G2X | 3 | E |
| TDDD97 | Web Programming | 6 | G2X | 3 | E |
| TDDE46 | Software Quality | 6* | A1X | 2 | E |
| TDEI71 | Digitisation, Business Ecologies and Business Models | 6 | A1X | 4 | E |
| TDTS04 | Computer Networks and Distributed Systems | 8 | G2X | 2 | E |
| TEIE88 | Computer Law | 4 | G1X | 1 | E |
| TEIM09 | International Business | 6 | A1X | 2 | E |
| TEIO13 | Leadership and Organizational Change | 6 | A1X | 4 | E |
| TETS57 | Logistics Analysis | 6 | A1X | 2 | E |
| TFYA45 | Biotechnology Project | 6* | A1X | - | E |
| TFYA62 | Introduction to Biosensor Technology | 6 | G2X | 4 | E |
| TFYA85 | Alternative Energy Sources and their Applications | 6 | G2X | 4 | E |
| TGTU91 | Oral and Written Communication | 6 | G1X | 2 | E |
| TGTU94 | Technology and Ethics | 6 | G1X | 1 | E |
| TKMJ10 | Industrial Ecology | 6 | A1X | 1 | E |
| TKMJ47 | Environmental Systems Analysis | 6* | A1N | 3 | E |
| TMES17 | Building Energy Systems | 6 | A1X | 3 | E |
| TMES43 | Analysis and Modelling of Industrial Energy Systems | 6 | A1X | 1 | E |
| TMKA04 | Wood - Innovation | 6 | A1X | 1 | E |
| TMKT48 | Design Optimization | 6 | A1X | 3 | E |
| TMKT74 | Advanced CAD | 6 | A1X | 4 | E |
| TMMS21 | Mechatronics | 6 | G2X | 1 | E |
| TMPS42 | Production System Automation | 6 | A1X | 1 | E |
| TMQU31 | Statistical Quality Control | 6 | A1X | 2 | E |
| TPPE32 | Financial Risk Management | 6 | A1X | 2 | E |



| TPPE78Quantitative Models and Analysis in Operations Management6A1X1ETSBK07Computer Graphics6*A1X4ETSBK08Data Compression6A1X2ETSK13Wireless Communications6A1X4ETSRT07Industrial Control Systems6A1X2ETSRT09Control Theory6A1X3ETSTE08Analog and Discrete-Time Integrated Circuits6A1X3ETVCB1Cellbiological Methodology6G2X1/4EPeriod 2TELE06Corporate Planning6*A1X3ETDDC78Programming of Parallel Computers - Methods and Tools6*A1X4ETDDD17Information Security, Second Course6*A1X3ETDDD27Advanced Programming in C++6*A1X2ETDDE07Bayesian Learning6A1X2ETDE41Software Architectures6A1X2ETDE43Sitvare Architectures6A1X2ETEIE06Innovative Entrepreneurship6A1X2ETDE44Software Quality6*A1X2ETDE45Sitvare Architectures6A1X2ETEIE06Innovative Entrepreneurship6A1X2ETEIE05Logistics and Quality in Health Care6< | Course code | Course name | Credits | Level | Timetable module | ECV |
|---|----------------|--|---------|-------|---------------------|-----|
| TSBK08Data Compression6A1X2ETSK513Wireless Communications6A1X4ETSK707Industrial Control Systems6A1X2ETSR09Control Theory6A1X3ETSE08Analog and Discrete-Time Integrated Circuits6A1X3ETVCB11Cellbiological Methodology6G2X1/4EPeriod 2TEIE06Corporate Planning6*A1X3ETDDC78Programming of Parallel Computers - Methods and Tools6A1X3ETDDD17Information Security, Second Course6*A1X4ETDDD27Advanced Web Programming6A1X3ETDD27Bayesian Learning6A1X2ETDD27Bayesian Learning6A1X3ETDD27Bayesian Learning6A1X2ETDD213Big Data Analytics6A1X3ETDDE41Software Architectures6A1X2ETEL025Strategy and Management Control6A1X2ETEI041Corporate Social Responsibility6A1X2ETEI041Corporate Social Responsibility6A1X3ETDD254Biotechnology Project6*A1X2ETEI041Corporate Social Responsibility6A1X2E <td>TPPE78</td> <td></td> <td>6</td> <td>A1X</td> <td>1</td> <td>E</td> | TPPE78 | | 6 | A1X | 1 | E |
| TSKS13Wireless Communications6A1X4ETSRT07Industrial Control Systems6A1X2ETSRT09Control Theory6A1X3ETSTE08Analog and Discrete-Time Integrated Circuits6A1X3ETVED11Cellbiological Methodology6G2X1/4EPeriod 2TELE06Corporate Planning6*A1X3ETDDC78Programming of Parallel Computers - Methods and Tools6*A1X3ETDDD17Information Security, Second Course6*A1X3ETDDD17Information Security, Second Course6*A1X3ETDDD27Advanced Web Programming6A1X3ETDDD38Advanced Programming in C++6*A1X2ETDDE41Software Architectures6A1X3ETDDE44Software Quality6*A1X2ETEL035Strategy and Management Control6A1X2ETEI006Innovative Entrepreneurship6A1X2ETEI006Innovative Entrepreneurship6A1X3ETEI041Corporate Social Responsibility6A1X2ETEI041Corporate Social Responsibility6A1X2ETEI041Corporate Social Responsibility6A1X2ETEI041Corporate S | TSBK07 | Computer Graphics | 6* | A1X | 4 | E |
| TSRT07Industrial Control Systems6A1X2ETSRT09Control Theory6A1X3ETSTE08Analog and Discrete-Time Integrated Circuits6A1X3ETVCB11Cellbiological Methodology6G2X1/4EPeriod 2 </td <td>TSBK08</td> <td>Data Compression</td> <td>6</td> <td>A1X</td> <td>2</td> <td>E</td> | TSBK08 | Data Compression | 6 | A1X | 2 | E |
| TSRT09Control Theory6A1X3ETSTE08Analog and Discrete-Time Integrated Circuits6A1X3ETVCB11Cellbiological Methodology6G2X1/4EPeriod 2TEIE06Corporate Planning6*A1X-CTATA53Linear Algebra, Honours Course6*G2X-ETDDC78Programming of Parallel Computers - Methods and Tools6A1X3ETDDD17Information Security, Second Course6*A1X3ETDDD27Advanced Web Programming6A1X3ETDDD38Advanced Programming in C++6*A1X2ETDDE07Bayesian Learning6A1X3ETDDE41Software Architectures6A1X2ETDE45Software Quality6*A1X2ETEI046Software Quality6*A1X2ETEI055Strategy and Management Control6A1X2ETEI041Corporate Social Responsibility6A1X3ETEI041Corporate Social Responsibility6A1X3ETETS36Sustainable Logistics Systems6A1X4ETEI0417Chongy Project6*A1X2ETEI0458Biotechnology Project6*A1X2ETEI0417Corporate Social Responsibility6 <td< td=""><td>TSKS13</td><td>Wireless Communications</td><td>6</td><td>A1X</td><td>4</td><td>E</td></td<> | TSKS13 | Wireless Communications | 6 | A1X | 4 | E |
| TSTE08Analog and Discrete-Time Integrated Circuits6A1X3ETVCB11Cellbiological Methodology6G2X1/4EPeriod 2TEIE06Corporate Planning6*A1X-CTATA53Linear Algebra, Honours Course6*G2X-ETDDC78Programming of Parallel Computers - Methods and Tools6A1X3ETDDD17Information Security, Second Course6*A1X3ETDDD27Advanced Web Programming6A1X3ETDDD38Advanced Programming in C++6*A1X2ETDDE07Bayesian Learning6A1X3ETDDE41Software Architectures6A1X1ETDE45Strategy and Management Control6A1X2ETEI040Innovative Entrepreneurship6A1X2ETEI041Corporate Social Responsibility6A1X3ETEI041Corporate Social Responsibility6A1X2ETETS36Lustinable Logistics Systems6A1X2ETETS56Logistics and Quality in Health Care6*A1X2ETFYA45Biotechnology Project6*A1X2ETFYA45Biotechnology Project6*A1X2ETFYA45Biotechnology Project6*A1X2ETFYA45Biotechn | TSRT07 | Industrial Control Systems | 6 | A1X | 2 | E |
| TVCB11Cellbiological Methodology6G2X1/4EPeriod 2TEIE06Corporate Planning6*A1X-CTATA53Linear Algebra, Honours Course6*G2X-ETDDC78Programming of Parallel Computers - Methods and Tools6A1X3ETDDD17Information Security, Second Course6*A1X4ETDDD27Advanced Web Programming6A1X3ETDDD38Advanced Programming in C++6*A1X2ETDDE07Bayesian Learning6A1X3ETDDE131Big Data Analytics6A1X2ETDDE46Software Quality6*A1X2ETDE135Strategy and Management Control6A1X2ETEIM07Industrial Market Research6A1X2ETEI006Innovative Entrepreneurship6A1X3ETEI006Innovative Entrepreneurship6A1X2ETEIS36Sustainable Logistics Systems6A1X4ETETS36Lugistics and Quality in Health Care6*A1X2ETFYA45Biotechnology Project6*A1X2ETFYA45Biotechnology Project6*A1X2ETEITS36Vastinable Logistics Analysis6*A1X2ETFYA45Biotechnology Project6* <td>TSRT09</td> <td>Control Theory</td> <td>6</td> <td>A1X</td> <td>3</td> <td>E</td> | TSRT09 | Control Theory | 6 | A1X | 3 | E |
| Period 2TEIE06Corporate Planning6*A1X-CTATA53Linear Algebra, Honours Course6*G2X-ETDDC78Programming of Parallel Computers - Methods and Tools6A1X3ETDDD17Information Security, Second Course6*A1X4ETDDD27Advanced Web Programming6A1X3ETDDD27Advanced Programming in C++6*A1X-ETDDE07Bayesian Learning6A1X3ETDDE31Big Data Analytics6A1X1ETDDE41Software Architectures6A1X2ETDE135Strategy and Management Control6A1X2ETEIM07Industrial Market Research6A1X2ETEIO06Innovative Entrepreneurship6A1X3ETEIS36Sustainable Logistics Systems6A1X3ETETS36Logistics and Quality in Health Care6A1X2ETFYA45Biotechnology Project6*A1X2ETFYA45Biotechnology Foject6*A1X2ETKMJ47Environmental Systems Analysis6*A1X2E | TSTE08 | Analog and Discrete-Time Integrated Circuits | 6 | A1X | 3 | E |
| TEIE06Corporate Planning6*A1X-CTATA53Linear Algebra, Honours Course6*G2X-ETDDC78Programming of Parallel Computers - Methods and Tools6A1X3ETDDD17Information Security, Second Course6*A1X4ETDDD27Advanced Web Programming6A1X3ETDDD38Advanced Programming in C++6*A1X-ETDDE07Bayesian Learning6A1X2ETDDE131Big Data Analytics6A1X3ETDDE44Software Architectures6A1X2ETDE135Strategy and Management Control6A1X2ETEIM07Industrial Market Research6A1X2ETEIO06Innovative Entrepreneurship6A1X3ETEIS36Sustainable Logistics Systems6A1X4ETETS56Logistics and Quality in Health Care6A1X2ETFYA45Biotechnology Project6*A1X2ETFYA45Biotechnology Project6*A1X2ETKMJ47Environmental Systems Analysis6*A1N2E | TVCB11 | Cellbiological Methodology | 6 | G2X | 1/4 | E |
| TATA53Linear Algebra, Honours Course6*G2X-ETDDC78Programming of Parallel Computers - Methods and Tools6A1X3ETDDD17Information Security, Second Course6*A1X4ETDDD27Advanced Web Programming6A1X3ETDDD38Advanced Programming in C++6*A1X2ETDDE07Bayesian Learning6A1X3ETDDE13Big Data Analytics6A1X3ETDDE41Software Architectures6A1X1ETDE455Strategy and Management Control6A1X2ETEI041Corporate Social Responsibility6A1X2ETEIO06Innovative Entrepreneurship6A1X3ETEIS36Sustainable Logistics Systems6A1X2ETETS56Logistics and Quality in Health Care6*A1X2ETFYA45Biotechnology Project6*A1X2ETGTU95Philosophy of Science and Technology6*A1X2ETKMJ47Environmental Systems Analysis6*A1N2E | Period 2 | | | | | |
| TDDC78Programming of Parallel Computers - Methods and Tools6A1X3ETDDD17Information Security, Second Course6*A1X4ETDDD27Advanced Web Programming6A1X3ETDDD38Advanced Programming in C++6*A1X-ETDDE07Bayesian Learning6A1X2ETDDE07Bayesian Learning6A1X3ETDDE131Big Data Analytics6A1X3ETDDE41Software Architectures6A1X1ETDDE45Software Quality6*A1X2ETDE135Strategy and Management Control6A1X2ETEIM07Industrial Market Research6A1X2ETEIO06Innovative Entrepreneurship6A1X3ETEIO06Innovative Entrepreneurship6A1X3ETEIS56Logistics and Quality in Health Care6A1X2ETFYA45Biotechnology Project6*A1X2ETFYA45Biotechnology Project6*A1X2ETEND59Philosophy of Science and Technology6G1X4ETGTU95Philosophy of Science and Technology6*A1N2E | TEIE06 | Corporate Planning | 6* | A1X | - | С |
| IDDC/8and Tools6A1X3ETDDD17Information Security, Second Course6*A1X4ETDDD27Advanced Web Programming6A1X3ETDDD38Advanced Programming in C++6*A1X-ETDDE07Bayesian Learning6A1X2ETDDE31Big Data Analytics6A1X3ETDDE41Software Architectures6A1X1ETDE45Strategy and Management Control6A1X2ETEAE13Civil and Commercial Law6G1X2ETEIO06Innovative Entrepreneurship6A1X3ETEIO06Innovative Entrepreneurship6A1X3ETETS36Sustainable Logistics Systems6A1X4ETETS56Logistics and Quality in Health Care6A1X2ETFYA45Biotechnology Project6*A1X-ETKMJ47Environmental Systems Analysis6*A1N2E | TATA53 | Linear Algebra, Honours Course | 6* | G2X | - | E |
| TDDD27Advanced Web Programming6A1X3ETDDD38Advanced Programming in C++6*A1X-ETDDE07Bayesian Learning6A1X2ETDDE31Big Data Analytics6A1X3ETDDE41Software Architectures6A1X1ETDDE46Software Quality6*A1X2ETDE453Strategy and Management Control6A1X2ETEAE13Civil and Commercial Law6G1X2ETEI006Innovative Entrepreneurship6A1X3ETEIO06Innovative Entrepreneurship6A1X3ETETS36Sustainable Logistics Systems6A1X4ETETS56Logistics and Quality in Health Care6A1X2ETFYA45Biotechnology Project6*A1X-ETKMJ47Environmental Systems Analysis6*A1N2E | TDDC78 | | 6 | A1X | 3 | E |
| TDDD38Advanced Programming in C++6*A1X-ETDDE07Bayesian Learning6A1X2ETDDE31Big Data Analytics6A1X3ETDDE41Software Architectures6A1X1ETDDE46Software Quality6*A1X2ETDE135Strategy and Management Control6A1X2ETEAE13Civil and Commercial Law6G1X2ETEI006Innovative Entrepreneurship6A1X3ETEIO41Corporate Social Responsibility6A1X3ETETS36Sustainable Logistics Systems6A1X4ETETS56Logistics and Quality in Health Care6*A1X2ETFYA45Biotechnology Project6*A1X-ETKMJ47Environmental Systems Analysis6*A1N2E | TDDD17 | Information Security, Second Course | 6* | A1X | 4 | E |
| TDDE07Bayesian Learning6A1X2ETDDE31Big Data Analytics6A1X3ETDDE41Software Architectures6A1X1ETDDE46Software Quality6*A1X2ETDE135Strategy and Management Control6A1X2ETEAE13Civil and Commercial Law6G1X2ETEIM07Industrial Market Research6A1X2ETEIO06Innovative Entrepreneurship6A1X2ETETS36Sustainable Logistics Systems6A1X3ETETS56Logistics and Quality in Health Care6A1X2ETFYA45Biotechnology Project6*A1X-ETKMJ47Environmental Systems Analysis6*A1N2E | TDDD27 | Advanced Web Programming | 6 | A1X | 3 | E |
| TDDE31Big Data Analytics6A1X3ETDDE31Big Data Analytics6A1X3ETDDE41Software Architectures6A1X1ETDDE46Software Quality6*A1X2ETDE135Strategy and Management Control6A1X2ETEAE13Civil and Commercial Law6G1X2ETEIM07Industrial Market Research6A1X2ETEIO06Innovative Entrepreneurship6A1X2ETEIO41Corporate Social Responsibility6A1X3ETETS36Sustainable Logistics Systems6A1X4ETETS56Logistics and Quality in Health Care6*A1X2ETFYA45Biotechnology Project6*A1X-ETKMJ47Environmental Systems Analysis6*A1N2E | TDDD38 | Advanced Programming in C++ | 6* | A1X | - | E |
| TDDE41Software Architectures6A1X1ETDDE46Software Quality6*A1X2ETDE135Strategy and Management Control6A1X2ETEAE13Civil and Commercial Law6G1X2ETEIM07Industrial Market Research6A1X2ETEIO06Innovative Entrepreneurship6A1X2ETEIO41Corporate Social Responsibility6A1X3ETETS36Sustainable Logistics Systems6A1X4ETETS56Logistics and Quality in Health Care6*A1X2ETFYA45Biotechnology Project6*A1X-ETKMJ47Environmental Systems Analysis6*A1N2E | TDDE07 | Bayesian Learning | 6 | A1X | 2 | E |
| TDDE46Software Quality6*A1X2ETDEI35Strategy and Management Control6A1X2ETEAE13Civil and Commercial Law6G1X2ETEIM07Industrial Market Research6A1X2ETEIO06Innovative Entrepreneurship6A1X2ETEIO41Corporate Social Responsibility6A1X3ETETS36Sustainable Logistics Systems6A1X4ETETS56Logistics and Quality in Health Care6*A1X-ETGTU95Philosophy of Science and Technology6*A1N2ETKMJ47Environmental Systems Analysis6*A1N2E | TDDE31 | Big Data Analytics | 6 | A1X | 3 | E |
| TDE135Strategy and Management Control6A1X2ETEAE13Civil and Commercial Law6G1X2ETEIM07Industrial Market Research6A1X2ETEIO06Innovative Entrepreneurship6A1X2ETEIO41Corporate Social Responsibility6A1X3ETETS36Sustainable Logistics Systems6A1X4ETETS56Logistics and Quality in Health Care6A1X2ETGTU95Philosophy of Science and Technology6G1X4ETKMJ47Environmental Systems Analysis6*A1N2E | TDDE41 | Software Architectures | 6 | A1X | 1 | E |
| TEAE13Civil and Commercial Law6G1X2ETEIM07Industrial Market Research6A1X2ETEIO06Innovative Entrepreneurship6A1X2ETEIO41Corporate Social Responsibility6A1X3ETETS36Sustainable Logistics Systems6A1X4ETETS56Logistics and Quality in Health Care6A1X2ETFYA45Biotechnology Project6*A1X-ETGTU95Philosophy of Science and Technology6G1X4ETKMJ47Environmental Systems Analysis6*A1N2E | TDDE46 | Software Quality | 6* | A1X | 2 | E |
| TEIM07Industrial Market Research6A1X2ETEIO06Innovative Entrepreneurship6A1X2ETEIO41Corporate Social Responsibility6A1X3ETETS36Sustainable Logistics Systems6A1X4ETETS56Logistics and Quality in Health Care6A1X2ETFYA45Biotechnology Project6*A1X-ETGTU95Philosophy of Science and Technology6G1X4ETKMJ47Environmental Systems Analysis6*A1N2E | TDEI35 | Strategy and Management Control | 6 | A1X | 2 | E |
| TEIO06Innovative Entrepreneurship6A1X2ETEIO41Corporate Social Responsibility6A1X3ETETS36Sustainable Logistics Systems6A1X4ETETS56Logistics and Quality in Health Care6A1X2ETFYA45Biotechnology Project6*A1X-ETGTU95Philosophy of Science and Technology6G1X4ETKMJ47Environmental Systems Analysis6*A1N2E | TEAE13 | Civil and Commercial Law | 6 | G1X | 2 | E |
| TEIO41Corporate Social Responsibility6A1X3ETETS36Sustainable Logistics Systems6A1X4ETETS56Logistics and Quality in Health Care6A1X2ETFYA45Biotechnology Project6*A1X-ETGTU95Philosophy of Science and Technology6G1X4ETKMJ47Environmental Systems Analysis6*A1N2E | TEIM07 | Industrial Market Research | 6 | A1X | 2 | E |
| TETS36Sustainable Logistics Systems6A1X4ETETS56Logistics and Quality in Health Care6A1X2ETFYA45Biotechnology Project6*A1X-ETGTU95Philosophy of Science and Technology6G1X4ETKMJ47Environmental Systems Analysis6*A1N2E | TEIO06 | Innovative Entrepreneurship | 6 | A1X | 2 | E |
| TETS56Logistics and Quality in Health Care6A1X2ETFYA45Biotechnology Project6*A1X-ETGTU95Philosophy of Science and Technology6G1X4ETKMJ47Environmental Systems Analysis6*A1N2E | TEIO41 | Corporate Social Responsibility | 6 | A1X | 3 | E |
| TFYA45Biotechnology Project6*A1X-ETGTU95Philosophy of Science and Technology6G1X4ETKMJ47Environmental Systems Analysis6*A1N2E | TETS36 | Sustainable Logistics Systems | 6 | A1X | 4 | E |
| TGTU95Philosophy of Science and Technology6G1X4ETKMJ47Environmental Systems Analysis6*A1N2E | TETS56 | Logistics and Quality in Health Care | 6 | A1X | 2 | E |
| TKMJ47 Environmental Systems Analysis 6* A1N 2 E | TFYA45 | Biotechnology Project | 6* | A1X | - | E |
| | TGTU95 | Philosophy of Science and Technology | 6 | G1X | 4 | E |
| TMES21 Industrial Energy Systems 6 A1X 3 E | TKMJ47 | Environmental Systems Analysis | 6* | A1N | 2 | E |
| | TMES21 | Industrial Energy Systems | 6 | A1X | 3 | E |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| TMES41 | Strategic Development of Sustainable Energy Systems | 6 | A1X | 2 | E |
| TMKT57 | Product Modelling | 6 | A1X | 3 | E |
| TMKT77 | System Safety | 6 | A1X | 4 | E |
| TMKT83 | Small Scale Renewable Energy Conversion | 6 | A1X | 4 | E |
| TMME11 | Road Vehicle Dynamics | 6 | A1X | 1 | E |
| TMPS27 | Production Systems | 6 | A1X | 3 | E |
| TMQU04 | Six Sigma Quality | 6 | A1X | 2 | E |
| TMQU13 | Customer Focused Product and Service Development | 6 | A1X | 4 | E |
| TPPE33 | Portfolio Management | 6 | A1X | 2 | E |
| TPPE74 | Design and Development of Manufacturing Operations | 6 | A1X | 4 | E |
| TSBK02 | Image and Audio Coding | 6 | A1X | 4 | E |
| TSBK07 | Computer Graphics | 6* | A1X | 1 | E |
| TSFS06 | Diagnosis and Supervision | 6 | A1X | 1 | E |
| TSKS14 | Multiple Antenna Communications | 6 | A1X | 3 | E |
| TSKS16 | Signal Processing for Communications | 6 | A1X | 1 | E |
| TSRT14 | Sensor Fusion | 6 | A1X | 2 | E |

Specialisation: Master Profile Automatic Control

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|----------------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TSRT07 | Industrial Control Systems | 6 | A1X | 2 | E |
| TSRT09 | Control Theory | 6 | A1X | 3 | E |
| Period 2 | | | | | |
| TSFS06 | Diagnosis and Supervision | 6 | A1X | 1 | E |
| TSRT14 | Sensor Fusion | 6 | A1X | 2 | E |
| | | | | | |

Specialisation: Master Profile Computer Science and Engineering

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|------------------------|---------|-------|---------------------|-----|
| Period 2 | | | | | |
| TDDE41 | Software Architectures | 6 | A1X | 1 | С |



| Course code | Course name | Credits | Level | Timetable module | ECV | |
|----------------|---|---------|-------|---------------------|-----|--|
| Period 1 | | | | | | |
| TDEI71 | Digitisation, Business Ecologies and Business Models | 6 | A1X | 4 | С | |
| Period 2 | | | | | | |
| TDEI35 | Strategy and Management Control | 6 | A1X | 2 | С | |

Specialisation: Master Profile Digitisation and Management

Specialisation: Master Profile Energy Engineering

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TMES17 | Building Energy Systems | 6 | A1X | 3 | E |
| TMES43 | Analysis and Modelling of Industrial Energy Systems | 6 | A1X | 1 | E |
| Period 2 | | | | | |
| TMES21 | Industrial Energy Systems | 6 | A1X | 3 | E |
| TMKT83 | Small Scale Renewable Energy Conversion | 6 | A1X | 4 | E |

Specialisation: Master Profile Finance

| Course name | Credits | Level | Timetable module | ECV |
|---------------------------|--|-----------------------------|---------------------------------|--|
| | | | | |
| Financial Risk Management | 6 | A1X | 2 | С |
| | | | | |
| Portfolio Management | 6 | A1X | 2 | E |
| | Course name Financial Risk Management Portfolio Management | Financial Risk Management 6 | Financial Risk Management 6 A1X | Course name Credits Level Instants module Financial Risk Management 6 A1X 2 |

Specialisation: Master Profile Industrial Marketing

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|----------------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TEIM09 | International Business | 6 | A1X | 2 | C/E |
| Period 2 | | | | | |
| TEIM07 | Industrial Market Research | 6 | A1X | 2 | С |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--------------------------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TETS57 | Logistics Analysis | 6 | A1X | 2 | C/E |
| Period 2 | | | | | |
| TETS36 | Sustainable Logistics Systems | 6 | A1X | 4 | E |
| TETS56 | Logistics and Quality in Health Care | 6 | A1X | 2 | E |

Specialisation: Master Profile Logistics Management

| Specialisation: Master Profile Manufacturing | |
|--|--|
|--|--|

| Course name | Credits | Level | Timetable module | ECV |
|------------------------------|------------------------------|--------------------------------|------------------------------------|---|
| | | | | |
| Production System Automation | 6 | A1X | 1 | E |
| | | | | |
| Production Systems | 6 | A1X | 3 | С |
| | Production System Automation | Production System Automation 6 | Production System Automation 6 A1X | Course name Credits Level module Production System Automation 6 A1X 1 |

Specialisation: Master Profile Operations Management

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TPPE78 | Quantitative Models and Analysis in Operations Management | 6 | A1X | 1 | E |
| Period 2 | | | | | |
| TPPE74 | Design and Development of Manufacturing Operations | 6 | A1X | 4 | С |

Specialisation: Master Profile Product Development

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TMKT48 | Design Optimization | 6 | A1X | 3 | С |
| Period 2 | | | | | |
| TMKT57 | Product Modelling | 6 | A1X | 3 | С |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--------------------------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TEIO13 | Leadership and Organizational Change | 6 | A1X | 4 | E |
| Period 2 | | | | | |
| TEIO06 | Innovative Entrepreneurship | 6 | A1X | 2 | E |
| TEIO41 | Corporate Social Responsibility | 6 | A1X | 3 | E |

Specialisation: Master Profile Project, Innovation and Entrepreneurship

Specialisation: Master Profile Quality Technology and Management

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TMQU31 | Statistical Quality Control | 6 | A1X | 2 | Е |
| Period 2 | | | | | |
| TMQU04 | Six Sigma Quality | 6 | A1X | 2 | C/E |
| TMQU13 | Customer Focused Product and Service Development | 6 | A1X | 4 | C/E |
| TETS56 | Logistics and Quality in Health Care | 6 | A1X | 2 | E |

Specialisation: Master Profile Signal and Image Processing

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--------------------------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TBMI26 | Neural Networks and Learning Systems | 6 | A1X | 2 | E |
| TSBK07 | Computer Graphics | 6* | A1X | 4 | E |
| Period 2 | | | | | |
| TSBK02 | Image and Audio Coding | 6 | A1X | 4 | E |
| TSBK07 | Computer Graphics | 6* | A1X | 1 | E |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--------------------------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TEIM09 | International Business | 6 | A1X | 2 | E |
| TEIO13 | Leadership and Organizational Change | 6 | A1X | 4 | E |
| Period 2 | | | | | |
| TEIM07 | Industrial Market Research | 6 | A1X | 2 | E |
| TETS36 | Sustainable Logistics Systems | 6 | A1X | 4 | E |

Specialisation: Master Profile Strategic Management and Control

Specialisation: Master Profile Telecommunication

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---------------------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TSBK08 | Data Compression | 6 | A1X | 2 | E |
| TSKS13 | Wireless Communications | 6 | A1X | 4 | E |
| Period 2 | | | | | |
| TSBK02 | Image and Audio Coding | 6 | A1X | 4 | E |
| TSKS14 | Multiple Antenna Communications | 6 | A1X | 3 | E |

Specialisation: Master Profile Wood Technology

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TMKA04 | Wood - Innovation | 6 | A1X | 1 | С |
| Period 2 | | | | | |
| TMKT57 | Product Modelling | 6 | A1X | 3 | E |
| TMPS27 | Production Systems | 6 | A1X | 3 | E |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| NBIC50 | Ecotoxicology and Environmental Monitoring | 6 | G2X | 1 | E |
| TFYA45 | Biotechnology Project | 6* | A1X | - | E |
| TFYA85 | Alternative Energy Sources and their Applications | 6 | G2X | 4 | E |
| TKMJ47 | Environmental Systems Analysis | 6* | A1N | 3 | E |
| Period 2 | | | | | |
| TFYA45 | Biotechnology Project | 6* | A1X | - | E |
| TKMJ47 | Environmental Systems Analysis | 6* | A1N | 2 | E |

Specialisation: Specialization Biotechnical Engineering

Specialisation: Specialization Computer Science and Engineering

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TBMI26 | Neural Networks and Learning Systems | 6 | A1X | 2 | E |
| TDDB68 | Concurrent Programming and Operating Systems | 6 | G2X | 3 | E |
| TDDD17 | Information Security, Second Course | 6* | A1X | 4 | E |
| TDDD20 | Design and Analysis of Algorithms | 6 | A1X | 3 | E |
| TDDD38 | Advanced Programming in C++ | 6* | A1X | 2 | E |
| TDDD41 | Data Mining - Clustering and Association Analysis | 6 | A1X | 3 | E |
| TDDD75 | Effect-Driven Development and Human- Centered Design of Interactive Systems | 6 | G2X | 3 | E |
| TDTS04 | Computer Networks and Distributed Systems | 8 | G2X | 2 | E |
| Period 2 | | | | | |
| TDDD17 | Information Security, Second Course | 6* | A1X | 4 | E |
| TDDD27 | Advanced Web Programming | 6 | A1X | 3 | E |
| TDDD38 | Advanced Programming in C++ | 6* | A1X | - | E |
| TDDE07 | Bayesian Learning | 6 | A1X | 2 | E |
| TDDE31 | Big Data Analytics | 6 | A1X | 3 | E |
| TDDE41 | Software Architectures | 6 | A1X | 1 | E |
| | | | | | |



| | Credits | Level | Timetable module | ECV |
|--------------------------------------|---|---|---|---|
| | | | | |
| Neural Networks and Learning Systems | 6 | A1X | 2 | Е |
| Computer Graphics | 6* | A1X | 4 | E |
| Data Compression | 6 | A1X | 2 | E |
| Wireless Communications | 6 | A1X | 4 | E |
| Industrial Control Systems | 6 | A1X | 2 | E |
| Control Theory | 6 | A1X | 3 | E |
| | | | | |
| Image and Audio Coding | 6 | A1X | 4 | E |
| Computer Graphics | 6* | A1X | 1 | E |
| Diagnosis and Supervision | 6 | A1X | 1 | E |
| Multiple Antenna Communications | 6 | A1X | 3 | E |
| Signal Processing for Communications | 6 | A1X | 1 | E |
| Sensor Fusion | 6 | A1X | 2 | E |
| | Computer Graphics Data Compression Wireless Communications ndustrial Control Systems Control Theory mage and Audio Coding Computer Graphics Diagnosis and Supervision Multiple Antenna Communications Signal Processing for Communications | Computer Graphics6*Data Compression6Wireless Communications6ndustrial Control Systems6Control Theory6mage and Audio Coding6Computer Graphics6*Diagnosis and Supervision6Multiple Antenna Communications6Signal Processing for Communications6 | Computer Graphics6*A1XData Compression6A1XWireless Communications6A1Xndustrial Control Systems6A1XControl Theory6A1Xmage and Audio Coding6A1XComputer Graphics6*A1XDiagnosis and Supervision6A1XMultiple Antenna Communications6A1XSignal Processing for Communications6A1X | Neural Networks and Learning Systems6A1X2Computer Graphics6*A1X4Data Compression6A1X2Wireless Communications6A1X4ndustrial Control Systems6A1X2Control Theory6A1X3mage and Audio Coding6A1X4Diagnosis and Supervision6A1X1Multiple Antenna Communications6A1X3Signal Processing for Communications6A1X1 |

Specialisation: Specialization Electrical Engineering

Specialisation: Specialization Energy Engineering

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TKMJ10 | Industrial Ecology | 6 | A1X | 1 | E |
| TMES17 | Building Energy Systems | 6 | A1X | 3 | E |
| TMES43 | Analysis and Modelling of Industrial Energy Systems | 6 | A1X | 1 | E |
| Period 2 | | | | | |
| TMES21 | Industrial Energy Systems | 6 | A1X | 3 | E |
| TMES41 | Strategic Development of Sustainable Energy Systems | 6 | A1X | 2 | E |
| TMKT83 | Small Scale Renewable Energy Conversion | 6 | A1X | 4 | E |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|------------------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TMKA04 | Wood - Innovation | 6 | A1X | 1 | E |
| TMKT48 | Design Optimization | 6 | A1X | 3 | E |
| TMKT74 | Advanced CAD | 6 | A1X | 4 | E |
| TMMS21 | Mechatronics | 6 | G2X | 1 | E |
| TMPS42 | Production System Automation | 6 | A1X | 1 | E |
| Period 2 | | | | | |
| TMKT57 | Product Modelling | 6 | A1X | 3 | E |
| TMKT77 | System Safety | 6 | A1X | 4 | E |
| TMME11 | Road Vehicle Dynamics | 6 | A1X | 1 | E |
| TMPS27 | Production Systems | 6 | A1X | 3 | E |
| | | | | | |

Specialisation: Specialization Mechanical Engineering

Semester 9 (Autumn 2020)

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TAMS39 | Multivariate Statistical Methods | 6 | A1X | 4 | E |
| TATM38 | Mathematical Models in Biology | 6 | A1X | 3 | E |
| TDDC34 | Technical, Economic and Societal Evaluation of IT-products | 6 | A1X | 3 | E |
| TDDD04 | Software Testing | 6 | A1X | 2 | E |
| TDDE15 | Advanced Machine Learning | 6 | A1X | 1 | E |
| TDDE45 | Software Design and Construction | 6 | A1X | 4 | E |
| TDEI72 | Strategy and Digitisation - Technology, Standards and Network Effects | 6 | A1X | 4 | E |
| TEAE12 | Strategic Analysis and Methods for Strategic Change | 12* | A1X | 2 | E |
| TEIM04 | Industrial Market and Technology Strategies | 12* | A1X | 2 | E |
| TEIO89 | Innovation and Entrepreneurship - Project Course | 12* | A1X | 4 | E |
| TETS38 | Logistics Project | 12* | A1X | 4 | E |
| TKMJ31 | Biofuels for Transportation | 6 | A1N | 1 | E |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| TMKT79 | Collaborative Multidisciplinary Design Optimization | 6 | A1X | 2 | E |
| TMPE01 | Project Course Advanced - Energy Engineering | 12* | A1X | - | Е |
| TMPM08 | Project Course Advanced - Manufacturing Engineering | 12* | A1X | - | E |
| TMQU27 | Quality Management - Project Course | 12* | A1X | 2 | E |
| TMQU47 | Quality Engineering and Design | 6 | A1X | 4 | E |
| TPPE53 | Financial Valuation Methodology | 6 | A1X | 2 | E |
| TPPE66 | Investment Valuation | 6* | A1X | 4 | E |
| TPPE73 | Operations Management - Project Course | 12* | A1X | 4 | E |
| TPPE99 | Simulation in Production and Logistics | 6 | A1X | 3 | E |
| TSFS12 | Autonomous Vehicles - Planning, Control, and Learning Systems | 6 | A1X | 1 | E |
| TSIT03 | Cryptology | 6 | A1X | 2 | E |
| TSKS12 | Modern Channel Coding, Inference and Learning | 6 | A1X | 1 | E |
| Period 2 | | | | | |
| TAOP18 | Supply Chain Optimization | 6 | A1X | 1 | E |
| TDDB44 | Compiler Construction | 6 | A1X | 1 | Е |
| TDDC90 | Software Security | 6 | A1X | 1 | Е |
| TDDD89 | Scientific Method | 6 | A1X | 3 | Е |
| TEAE12 | Strategic Analysis and Methods for Strategic Change | 12* | A1X | 2 | E |
| TEAE18 | Sustainable Value Chain Strategies | 6 | A1X | 4 | E |
| TEIM04 | Industrial Market and Technology Strategies | 12* | A1X | 2 | Е |
| TEIM10 | Industrial Service Development | 6 | A1X | 2 | E |
| TEIO89 | Innovation and Entrepreneurship - Project Course | 12* | A1X | 4 | E |
| TETS31 | Logistics Strategies | 6 | A1X | 4 | E |
| TETS38 | Logistics Project | 12* | A1X | 2 | E |
| TFBI17 | Advanced Project Course in Ecosystem Service Valuation | 6 | A1X | - | E |
| TKMJ32 | Integrated Product Service Engineering | 6 | A1N | 3 | E |
| TMES51 | International Energy Markets | 6 | A1X | 1 | E |
| | | | | | |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| TMKA03 | Industrial Design | 6 | G2X | 1 | E |
| TMPE01 | Project Course Advanced - Energy Engineering | 12* | A1X | - | E |
| TMPM08 | Project Course Advanced - Manufacturing Engineering | 12* | A1X | - | E |
| TMQU12 | Lean Production | 6 | A1X | 2 | E |
| TMQU27 | Quality Management - Project Course | 12* | A1X | 4 | E |
| TPPE61 | Financial Optimization | 6 | A1X | 2 | E |
| TPPE66 | Investment Valuation | 6* | A1X | 4 | E |
| TPPE73 | Operations Management - Project Course | 12* | A1X | 4 | E |
| TSRT08 | Optimal Control | 6 | A1X | 3 | E |

Specialisation: Master Profile Automatic Control

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|-----------------|---------|-------|---------------------|-----|
| Period 2 | | | | | |
| TSRT08 | Optimal Control | 6 | A1X | 3 | E |

Specialisation: Master Profile Computer Science and Engineering

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|----------------------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TDDD04 | Software Testing | 6 | A1X | 2 | С |
| TDDE45 | Software Design and Construction | 6 | A1X | 4 | С |
| Period 2 | | | | | |
| TDDD89 | Scientific Method | 6 | A1X | 3 | С |

Specialisation: Master Profile Digitisation and Management

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TDDC34 | Technical, Economic and Societal Evaluation of IT-products | 6 | A1X | 3 | E |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TKMJ31 | Biofuels for Transportation | 6 | A1N | 1 | E |
| TMPE01 | Project Course Advanced - Energy Engineering | 12* | A1X | - | E |
| Period 2 | | | | | |
| TMPE01 | Project Course Advanced - Energy Engineering | 12* | A1X | - | E |

Specialisation: Master Profile Energy Engineering

Specialisation: Master Profile Finance

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---------------------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TPPE53 | Financial Valuation Methodology | 6 | A1X | 2 | E |
| TPPE66 | Investment Valuation | 6* | A1X | 4 | E |
| Period 2 | | | | | |
| TPPE61 | Financial Optimization | 6 | A1X | 2 | E |
| TPPE66 | Investment Valuation | 6* | A1X | 4 | E |

Specialisation: Master Profile Industrial Marketing

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TEIM04 | Industrial Market and Technology Strategies | 12* | A1X | 2 | С |
| Period 2 | | | | | |
| TEIM04 | Industrial Market and Technology Strategies | 12* | A1X | 2 | С |

Specialisation: Master Profile Logistics Management

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TETS38 | Logistics Project | 12* | A1X | 4 | С |
| TPPE99 | Simulation in Production and Logistics | 6 | A1X | 3 | E |
| Period 2 | | | | | |
| TETS38 | Logistics Project | 12* | A1X | 2 | С |
| TETS31 | Logistics Strategies | 6 | A1X | 4 | E |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TMPM08 | Project Course Advanced - Manufacturing Engineering | 12* | A1X | - | С |
| Period 2 | | | | | |
| TMPM08 | Project Course Advanced - Manufacturing Engineering | 12* | A1X | - | С |
| | | | | | |

Specialisation: Master Profile Manufacturing

| Specialisation: Master Profile Operations Management | |
|--|--|
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| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TPPE73 | Operations Management - Project Course | 12* | A1X | 4 | С |
| TPPE99 | Simulation in Production and Logistics | 6 | A1X | 3 | E |
| Period 2 | | | | | |
| TPPE73 | Operations Management - Project Course | 12* | A1X | 4 | С |

Specialisation: Master Profile Product Development

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TMPM05 | Project Course Advanced - Design Engineering and Product Development | 12* | A1X | - | С |
| Period 2 | | | | | |
| TMPM05 | Project Course Advanced - Design Engineering and Product Development | 12* | A1X | - | С |

Specialisation: Master Profile Project, Innovation and Entrepreneurship

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TEIO89 | Innovation and Entrepreneurship - Project Course | 12* | A1X | 4 | С |
| Period 2 | | | | | |
| TEIO89 | Innovation and Entrepreneurship - Project Course | 12* | A1X | 4 | С |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|-------------------------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TMQU27 | Quality Management - Project Course | 12* | A1X | 2 | С |
| TMQU47 | Quality Engineering and Design | 6 | A1X | 4 | E |
| Period 2 | | | | | |
| TMQU27 | Quality Management - Project Course | 12* | A1X | 4 | С |

Specialisation: Master Profile Quality Technology and Management

| | Specialisation: Master Profile Strategic Mo | anagem | ent and | l Control | |
|-----|---|---------|---------|-----------|--|
| rse | Course name | Cradita | Loval | Timetable | |

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TEAE12 | Strategic Analysis and Methods for Strategic Change | 12* | A1X | 2 | С |
| TDEI72 | Strategy and Digitisation - Technology, Standards and Network Effects | 6 | A1X | 4 | E |
| Period 2 | | | | | |
| TEAE12 | Strategic Analysis and Methods for Strategic Change | 12* | A1X | 2 | С |
| TEAE18 | Sustainable Value Chain Strategies | 6 | A1X | 4 | E |
| TEIM10 | Industrial Service Development | 6 | A1X | 2 | E |
| TMQU12 | Lean Production | 6 | A1X | 2 | E |

Specialisation: Master Profile Telecommunication

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TSKS12 | Modern Channel Coding, Inference and Learning | 6 | A1X | 1 | E |

Specialisation: Master Profile Wood Technology

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TMPM05 | Project Course Advanced - Design Engineering and Product Development | 12* | A1X | - | С |
| Period 2 | | | | | |
| TMPM05 | Project Course Advanced - Design Engineering and Product Development | 12* | A1X | - | С |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TATM38 | Mathematical Models in Biology | 6 | A1X | 3 | E |
| Period 2 | | | | | |
| TFBI17 | Advanced Project Course in Ecosystem Service Valuation | 6 | A1X | - | E |

Specialisation: Specialization Biotechnical Engineering

Specialisation: Specialization Computer Science and Engineering

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TDDD04 | Software Testing | 6 | A1X | 2 | E |
| TDDE15 | Advanced Machine Learning | 6 | A1X | 1 | E |
| TDDE45 | Software Design and Construction | 6 | A1X | 4 | E |
| TSFS12 | Autonomous Vehicles - Planning, Control, and Learning Systems | 6 | A1X | 1 | E |
| TSIT03 | Cryptology | 6 | A1X | 2 | E |

Specialisation: Specialization Electrical Engineering

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TSFS12 | Autonomous Vehicles - Planning, Control, and Learning Systems | 6 | A1X | 1 | E |
| TSIT03 | Cryptology | 6 | A1X | 2 | E |
| TSKS12 | Modern Channel Coding, Inference and Learning | 6 | A1X | 1 | E |
| Period 2 | | | | | |
| TSRT08 | Optimal Control | 6 | A1X | 3 | E |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TKMJ31 | Biofuels for Transportation | 6 | A1N | 1 | E |
| TMPE01 | Project Course Advanced - Energy Engineering | 12* | A1X | - | E |
| Period 2 | | | | | |
| TMPE01 | Project Course Advanced - Energy Engineering | 12* | A1X | - | E |

Specialisation: Specialization Energy Engineering

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|-----------------|------------|---------|---------|----------|---------|
| Specialisation: | Snoma | hzation | Machani | oal Enar | noorina |
| SDECIULISULION. | Specia | uzanon | mechani | ui Liigi | neerinu |
| | | | | | |

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TMKT79 | Collaborative Multidisciplinary Design Optimization | 6 | A1X | 2 | E |
| TMPM08 | Project Course Advanced - Manufacturing Engineering | 12* | A1X | - | E |
| Period 2 | | | | | |
| TKMJ32 | Integrated Product Service Engineering | 6 | A1N | 3 | E |
| TMKA03 | Industrial Design | 6 | G2X | 1 | E |
| TMPM08 | Project Course Advanced - Manufacturing Engineering | 12* | A1X | - | E |

Semester 10 (Spring 2021)

| Course code | Course name | | Level | Timetable module | ECV |
|----------------|---------------------------------------|-----|-------|---------------------|-----|
| Period 1 | | | | | |
| TQXX33 | XX33 Degree project - Master's Thesis | | A1X | - | С |
| Period 2 | | | | | |
| TQXX33 | Degree project - Master's Thesis | 30* | A1X | - | С |

ECV = Elective / Compulsory /Voluntary

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

