

Mechanical Engineering, M Sc in Engineering

300 credits

Civilingenjör i maskinteknik

6CMMM

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 Civilingenjör 300 hp och Teknologie master 120 hp



Curriculum

Semester 2 (Spring 2017)

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---------------------------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TATA41 | Calculus in One Variable 1 | 6 | G1X | 3 | С |
| TEAE04 | Industrial Economics and Organisation | 6 | G1X | 2 | С |
| TMMT04 | Experimental Mechanical Engineering | 6* | G1X | 1 | С |
| THEN18 | English | 6* | G1X | 4 | E |
| TGTU35 | Introduction to University Studies | 2* | G1X | - | V |
| Period 2 | | | | | |
| TATA42 | Calculus in One Variable 2 | 6 | G1X | 3 | С |
| TMME63 | Engineering Mechanics - Statics | 6 | G1X | 2 | С |
| TMMT04 | Experimental Mechanical Engineering | 6* | G1X | 1 | С |
| THEN18 | English | 6* | G1X | 4 | E |
| TGTU35 | Introduction to University Studies | 2* | G1X | - | V |

Semester 3 (Autumn 2017)

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|-----------------------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TATA69 | Calculus in Several Variables | 6 | G1X | 4 | С |
| TMHL22 | Solid Mechanics | 6 | G2X | 3 | С |
| TMPS34 | Manufacturing Engineering | 6* | G1X | 2 | С |
| Period 2 | | | | | |
| TMME28 | Engineering Mechanics - Dynamics | 6 | G1X | 2 | С |
| TMMV11 | Fluid Mechanics and Heat Transfer | 6 | G2X | 3 | С |
| TMPS34 | Manufacturing Engineering | 6* | G1X | 4 | С |



Semester 4 (Spring 2018)

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TAMS11 | Probability and Statistics, first course | 6 | G2X | 1 | С |
| TMKA02 | Mechanical Design Methodology and Product Development | 6* | G2X | 2 | С |
| TMKM12 | Engineering Materials Metals | 6 | G1X | 4 | С |
| Period 2 | | | | | |
| TKMJ24 | Environmental Engineering | 6 | G1N | 4 | С |
| TMHL63 | Introduction to Computational Mechanics | 6 | G2X | 1 | С |
| TMKA02 | Mechanical Design Methodology and Product Development | 6* | G2X | 2 | С |
| TPTE06 | Industrial Placement | 6 | G1X | - | E |

Semester 5 (Autumn 2018)

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|-----------------------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TMEL08 | Electrical Systems | 6 | G2X | 4 | С |
| TMHL24 | Solid Mechanics - Design Criteria | 6 | G2X | 3 | С |
| TMKM14 | Industrial Material Selection | 6* | G2X | 1 | С |
| THFR05 | Communicative French | 6* | G1X | 4 | E |
| THSP05 | Spanish | 6* | G1X | 4 | E |
| THTY05 | German | 6* | G1X | 4 | E |
| Period 2 | | | | | |
| TMKM14 | Industrial Material Selection | 6* | G2X | 1 | С |
| ТМКТ39 | Machine Elements | 6 | G2X | 2 | С |
| TSRT19 | Automatic Control | 6 | G2X | 4 | С |
| THFR05 | Communicative French | 6* | G1X | 4 | E |
| THSP05 | Spanish | 6* | G1X | 4 | E |
| THTY05 | German | 6* | G1X | 4 | E |



Semester 6 (Spring 2019)

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TMMS21 | Mechatronics | 6 | G2X | 1 | С |
| TMMT31 | Bachelor Thesis - Mechanical Engineering | 18* | G2X | - | С |
| TPPE91 | Production System Planning and Management | 6 | G2X | 2 | С |
| THFR05 | Communicative French | 6* | G1X | 4 | E |
| THSP05 | Spanish | 6* | G1X | 4 | E |
| THTY05 | German | 6* | G1X | 4 | E |
| Period 2 | | | | | |
| TMMT31 | Bachelor Thesis - Mechanical Engineering | 18* | G2X | - | С |
| THFR05 | Communicative French | 6* | G1X | 4 | E |
| THSP05 | Spanish | 6* | G1X | 4 | E |
| THTY05 | German | 6* | G1X | 4 | E |

Semester 7 (Autumn 2019)

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TANA21 | Scientific Computing | 6 | G1X | 3 | E |
| TDDE18 | Programming C++ | 6* | G2X | 2 | E |
| TEIM11 | Industrial Marketing | 6 | G2X | 3 | E |
| TETS37 | Basics in Logistics Management | 6 | G2X | 4 | E |
| TFMT08 | Measurement Technology | 6 | G2X | 3 | E |
| TFYA88 | Additive Manufacturing: Tools, Materials and Methods | 6 | A1X | 3 | E |
| TFYA88 | Additive Manufacturing: Tools, Materials and Methods | 6 | A1X | 3 | E |
| TKMJ31 | Biofuels for Transportation | 6 | A1N | 1 | E |
| TMAL02 | Aircraft and Vehicle Design | 6 | G2F | 4 | E |
| TMES09 | Industrial Energy Systems | 6 | A1X | 3 | E |
| TMES27 | Modelling of Energy Systems | 6 | A1N | 3 | E |
| TMHP02 | Fluid Power Systems | 6 | G2X | 2 | E |



| TMKM17Polymer Materials6A1X2ETMKT69Conceptual Design - Project Course6A1N4ETMKT80Wood - Material6G2X2ETMME14Machine Elements, Second Course6A1X3ETMME40Vibration Analysis of Structures6A1X3ETMME64Biomechanics, basic course6G2X2ETMMI68CAD and Drafting Techniques, Continued Course6*G2X2ETMMS11Models of Mechanics6*A1X3ETMMV01Aerodynamics6A1X2E | Credits Level Timetable ECV module |
|--|------------------------------------|
| TMKT80Wood - Material6G2X2ETMME14Machine Elements, Second Course6A1X3ETMME40Vibration Analysis of Structures6A1X3ETMME64Biomechanics, basic course6G2X2ETMMI68CAD and Drafting Techniques, Continued Course6*G2X2ETMMS11Models of Mechanics6*A1X3ETMMV01Aerodynamics6A1X2E | 6 A1X 2 E |
| TMME14Machine Elements, Second Course6A1X3ETMME40Vibration Analysis of Structures6A1X3ETMME64Biomechanics, basic course6G2X2ETMMI68CAD and Drafting Techniques, Continued Course6*G2X2ETMMS11Models of Mechanics6*A1X3ETMMV01Aerodynamics6A1X2E | 6 A1N 4 E |
| TMME40Vibration Analysis of Structures6A1X3ETMME64Biomechanics, basic course6G2X2ETMMI68CAD and Drafting Techniques, Continued Course6*G2X2ETMMS11Models of Mechanics6*A1X3ETMMV01Aerodynamics6A1X2E | 6 G2X 2 E |
| TMME64Biomechanics, basic course6G2X2ETMMI68CAD and Drafting Techniques, Continued Course6*G2X2ETMMS11Models of Mechanics6*A1X3ETMMV01Aerodynamics6A1X2E | 6 A1X 3 E |
| TMMI68CAD and Drafting Techniques, Continued Course6*G2X2ETMMS11Models of Mechanics6*A1X3ETMMV01Aerodynamics6A1X2E | 6 A1X 3 E |
| IMMI68 CourseCourse6*G2X2ETMMS11Models of Mechanics6*A1X3ETMMV01Aerodynamics6A1X2E | 6 G2X 2 E |
| TMMV01 Aerodynamics6A1X2E | ued 6* G2X 2 E |
| | 6* A1X 3 E |
| | 6 A1X 2 E |
| TMPS33Virtual Manufacturing6A1N4E | 6 A1N 4 E |
| TMPT03Production Engineering - Continuing Course6G2F2E | Course 6 G2F 2 E |
| TMQU03Quality Management and Engineering6G2X2E | g 6 G2X 2 E |
| TPPE16Manufacturing Strategies6A1X2E | 6 A1X 2 E |
| TSFS09 Modelling and Control of Engines and 6* A1X 4 E Drivelines | 3 6* A1X 4 E |
| TSFS12 Autonomous Vehicles - Planning, Control, and Learning Systems 6 A1X 1 E | itrol, and 6 A1X 1 E |
| TMPP02Project Course - Race Vehicle Engineering6*G1XV | ering 6* G1X - V |
| Period 2 | |
| TATA71 Ordinary Differential Equations and Dynamical Systems 6 G2X 2 E |)ynamical 6 G2X 2 E |
| TDDE18Programming C++6*G2X1E | 6* G2X 1 E |
| TEIE42Industrial Sales Management6A1X4E | 6 A1X 4 E |
| TEIM10Industrial Service Development6A1X2E | 6 A1X 2 E |
| TETS27Supply Chain Logistics6A1X2E | 6 A1X 2 E |
| TFYA96The physics behind technology6G2X4E | 6 G2X 4 E |
| TGTU04Leadership6G2X2E | 6 G2X 2 E |
| TGTU49History of Technology6G1X3E | 6 G1X 3 E |
| TKMJ28Management Systems and Sustainability6A1X2E | ility 6 A1X 2 E |
| TMES25Energy Resources6A1X3E | 6 A1X 3 E |
| TMES45Energy Planning and Modelling of Communities6A1F4E | 6 A1F 4 E |
| TMHL03Mechanics of Light Structures6A1X3E | 6 A1X 3 E |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| TMHP03 | Engineering Systems Design | 6 | A1X | 4 | E |
| TMKA03 | Industrial Design | 6 | G2X | 1 | E |
| 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 |
| TMME50 | Flight Mechanics | 6 | A1X | 2 | E |
| TMMI68 | CAD and Drafting Techniques, Continued Course | 6* | G2X | 4 | E |
| TMMS07 | Biomechanics | 6 | A1X | 4 | E |
| TMMS11 | Models of Mechanics | 6* | A1X | 4 | E |
| TMMV18 | Fluid Mechanics | 6 | A1X | 2 | E |
| TMMV54 | Computational Heat Transfer | 6 | A1X | 1 | E |
| TMPS22 | Assembly Technology | 6 | A1X | 3 | E |
| TMPS31 | Sustainable Manufacturing | 6 | A1X | 1 | E |
| TMQU12 | Lean Production | 6 | A1X | 2 | E |
| TPPE76 | Operations Planning and Control | 6 | A1X | 4 | E |
| TSEA81 | Computer Engineering and Real-time Systems | 6 | A1X | 4 | E |
| TSFS02 | Vehicle Dynamics and Control | 6 | A1X | 1 | E |
| TSFS09 | Modelling and Control of Engines and Drivelines | 6* | A1X | 3 | E |
| TSIU02 | Computer Hardware and Architecture | 4 | G1X | 2 | E |
| TSRT06 | Automatic Control, Advanced Course | 6 | A1X | 2 | E |
| TSRT78 | Digital Signal Processing | 6 | A1X | 2 | E |
| TMPP02 | Project Course - Race Vehicle Engineering | 6* | G1X | - | V |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|----------------------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TMAL02 | Aircraft and Vehicle Design | 6 | G2F | 4 | С |
| TMMV01 | Aerodynamics | 6 | A1X | 2 | С |
| TMME40 | Vibration Analysis of Structures | 6 | A1X | 3 | E |
| Period 2 | | | | | |
| TMHP03 | Engineering Systems Design | 6 | A1X | 4 | С |
| TMME50 | Flight Mechanics | 6 | A1X | 2 | С |
| TMHL03 | Mechanics of Light Structures | 6 | A1X | 3 | E |

Specialisation: Aeronautical Engineering

Specialisation: Energy and Environmental Engineering

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TAOP88 | Engineering Optimization | 6 | G2X | 1 | С |
| TMES09 | Industrial Energy Systems | 6 | A1X | 3 | С |
| TKMJ31 | Biofuels for Transportation | 6 | A1N | 1 | E |
| TMES27 | Modelling of Energy Systems | 6 | A1N | 3 | E |
| Period 2 | | | | | |
| TMES25 | Energy Resources | 6 | A1X | 3 | С |
| TKMJ28 | Management Systems and Sustainability | 6 | A1X | 2 | E |
| TMES45 | Energy Planning and Modelling of Communities | 6 | A1F | 4 | E |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TAOP88 | Engineering Optimization | 6 | G2X | 1 | С |
| TMKT69 | Conceptual Design - Project Course | 6 | A1N | 4 | С |
| TMME14 | Machine Elements, Second Course | 6 | A1X | 3 | E |
| TMMI68 | CAD and Drafting Techniques, Continued Course | 6* | G2X | 2 | E |
| TMPT03 | Production Engineering - Continuing Course | 6 | G2F | 2 | E |
| Period 2 | | | | | |
| TMHP03 | Engineering Systems Design | 6 | A1X | 4 | E |
| TMKT71 | Affective Engineering | 6 | A1X | 2 | E |
| TMMI68 | CAD and Drafting Techniques, Continued Course | 6* | G2X | 4 | E |
| TMMV18 | Fluid Mechanics | 6 | A1X | 2 | E |
| TMMV54 | Computational Heat Transfer | 6 | A1X | 1 | E |

Specialisation: Engineering Design and Product Development

Specialisation: Engineering materials

| Course code | Course name | Credits | Level | Timetable module | ECV |
|--|--|-----------------------|---------------------------------|-----------------------|-------------|
| Period 1 | | | | | |
| TAOP88 | Engineering Optimization | 6 | G2X | 1 | С |
| TMKM17 | Polymer Materials | 6 | A1X | 2 | С |
| TFYA95 | Principles of Materials Science | 6 | A1X | 2 | E |
| TMKT69 | Conceptual Design - Project Course | 6 | A1N | 4 | E |
| TMKT80 | Wood - Material | 6 | G2X | 2 | E |
| TMME14 | Machine Elements, Second Course | 6 | A1X | 3 | E |
| TMPT03 | Production Engineering - Continuing Course | 6 | G2F | 2 | E |
| Period 2 | | | | | |
| ТМКМ90 | Engineering Materials - Deformation and Fracture | 6 | A1X | 2 | С |
| TMHL03 | Mechanics of Light Structures | 6 | A1X | 3 | E |
| TMMV54 | Computational Heat Transfer | 6 | A1X | 1 | E |
| TMPS31 | Sustainable Manufacturing | 6 | A1X | 1 | E |
| TMME14 TMPT03 Period 2 TMKM90 TMHL03 TMMV54 | Machine Elements, Second Course Production Engineering - Continuing Course Engineering Materials - Deformation and Fracture Mechanics of Light Structures Computational Heat Transfer | 6 6 6 6 6 | A1X G2F A1X A1X A1X | 3 2 2 3 1 | E C E |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|----------------------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TAOP88 | Engineering Optimization | 6 | G2X | 1 | С |
| TMME40 | Vibration Analysis of Structures | 6 | A1X | 3 | E |
| TMMS11 | Models of Mechanics | 6* | A1X | 3 | E |
| Period 2 | | | | | |
| TMHL03 | Mechanics of Light Structures | 6 | A1X | 3 | E |
| TMMS11 | Models of Mechanics | 6* | A1X | 4 | E |
| TMMV18 | Fluid Mechanics | 6 | A1X | 2 | E |
| TMMV54 | Computational Heat Transfer | 6 | A1X | 1 | E |

Specialisation: Engineering Mechanics

Specialisation: Logistics

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|------------------------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TAOP88 | Engineering Optimization | 6 | G2X | 1 | С |
| TETS37 | Basics in Logistics Management | 6 | G2X | 4 | С |
| TEIM11 | Industrial Marketing | 6 | G2X | 3 | E |
| TMQU03 | Quality Management and Engineering | 6 | G2X | 2 | E |
| TPPE16 | Manufacturing Strategies | 6 | A1X | 2 | E |
| Period 2 | | | | | |
| TETS27 | Supply Chain Logistics | 6 | A1X | 2 | С |
| TMQU12 | Lean Production | 6 | A1X | 2 | E |
| TPPE76 | Operations Planning and Control | 6 | A1X | 4 | E |
| | | | | | |



| Course name | Credits | Level | Timetable module | ECV |
|---|---|---|--|--|
| | | | | |
| Engineering Optimization | 6 | G2X | 1 | С |
| Fluid Power Systems | 6 | G2X | 2 | С |
| Modelling and Control of Engines and Drivelines | 6* | A1X | 4 | С |
| Autonomous Vehicles - Planning, Control, and Learning Systems | 6 | A1X | 1 | E |
| | | | | |
| Modelling and Control of Engines and Drivelines | 6* | A1X | 3 | С |
| Automatic Control, Advanced Course | 6 | A1X | 2 | С |
| Flight Mechanics | 6 | A1X | 2 | E |
| Vehicle Dynamics and Control | 6 | A1X | 1 | E |
| | Engineering Optimization Fluid Power Systems Modelling and Control of Engines and Drivelines Autonomous Vehicles - Planning, Control, and Learning Systems Modelling and Control of Engines and Drivelines Automatic Control, Advanced Course Flight Mechanics | Engineering Optimization6Fluid Power Systems6Modelling and Control of Engines and Drivelines6*Autonomous Vehicles - Planning, Control, and Learning Systems6Modelling and Control of Engines and Drivelines6Modelling and Control of Engines and Drivelines6Flight Mechanics6 | Engineering Optimization6G2XFluid Power Systems6G2XModelling and Control of Engines and Drivelines6*A1XAutonomous Vehicles - Planning, Control, and Learning Systems6A1XModelling and Control of Engines and Drivelines6*A1XAutonomous Vehicles - Planning, Control, and Learning Systems6A1XModelling and Control of Engines and Drivelines6*A1XFlight Mechanics6A1X | Course nameCreditsLevelmoduleEngineering Optimization6G2X1Fluid Power Systems6G2X2Modelling and Control of Engines and Drivelines6*A1X4Autonomous Vehicles - Planning, Control, and Learning Systems6A1X1Modelling and Control of Engines and Drivelines6*A1X3Autonomous Vehicles - Planning, Control, and Learning Systems6*A1X2Image: Systems6*A1X33Flight Mechanics6A1X21 |

Specialisation: Mechatronics

Specialisation: Operations Management

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TAOP88 | Engineering Optimization | 6 | G2X | 1 | С |
| TMPS33 | Virtual Manufacturing | 6 | A1N | 4 | E |
| TMPT03 | Production Engineering - Continuing Course | 6 | G2F | 2 | E |
| TPPE17 | Corporate Finance | 6 | G2X | 4 | E |
| Period 2 | | | | | |
| TMQU12 | Lean Production | 6 | A1X | 2 | С |
| TMPS22 | Assembly Technology | 6 | A1X | 3 | E |
| TMPS31 | Sustainable Manufacturing | 6 | A1X | 1 | E |
| TPPE76 | Operations Planning and Control | 6 | A1X | 4 | E |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TAOP88 | Engineering Optimization | 6 | G2X | 1 | С |
| TMPT03 | Production Engineering - Continuing Course | 6 | G2F | 2 | С |
| TETS37 | Basics in Logistics Management | 6 | G2X | 4 | E |
| TMPS33 | Virtual Manufacturing | 6 | A1N | 4 | E |
| TMQU03 | Quality Management and Engineering | 6 | G2X | 2 | E |
| TPPE16 | Manufacturing Strategies | 6 | A1X | 2 | E |
| Period 2 | | | | | |
| TPPE76 | Operations Planning and Control | 6 | A1X | 4 | С |
| TMPS22 | Assembly Technology | 6 | A1X | 3 | E |
| TMPS31 | Sustainable Manufacturing | 6 | A1X | 1 | E |
| TMQU12 | Lean Production | 6 | A1X | 2 | E |

Specialisation: Production Engineering

Specialisation: Qaulity Management

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|------------------------------------|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TAOP88 | Engineering Optimization | 6 | G2X | 1 | С |
| TMQU03 | Quality Management and Engineering | 6 | G2X | 2 | С |
| TEIM11 | Industrial Marketing | 6 | G2X | 3 | E |
| TETS37 | Basics in Logistics Management | 6 | G2X | 4 | E |
| TPPE16 | Manufacturing Strategies | 6 | A1X | 2 | E |
| Period 2 | | | | | |
| TMQU12 | Lean Production | 6 | A1X | 2 | С |
| TETS27 | Supply Chain Logistics | 6 | A1X | 2 | E |

Semester 8 (Spring 2020)

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TEIO13 | Leadership and Organizational Change | 6 | A1X | 4 | E |
| TEIO46 | Technology-based Projects and Organisations | 6* | G2X | 4 | E |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| TEIO94 | Entrepreneurship and Idea Development | 6* | G2X | 4 | E |
| TETS57 | Logistics Analysis | 6 | A1X | 2 | 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 |
| TKMJ15 | Environmental Management Strategies | 6 | G1F | 3 | E |
| TMAL51 | Aircraft Conceptual Design | 6 | A1F | 2 | E |
| TMAL56 | Aircraft Systems Engineering | 6 | A1F | 1 | Е |
| TMES17 | Building Energy Systems | 6 | A1N | 3 | Е |
| TMES43 | Analysis and Modelling of Industrial Energy Systems | 6 | A1F | 1 | E |
| TMHL41 | Continuum Mechanics | 6 | A1X | 2 | Е |
| TMHL62 | The Finite Element Method; advanced course | 6 | A1X | 4 | Е |
| TMHP51 | Hydraulic Servo Systems | 6 | A1X | 3 | Е |
| TMKA04 | Wood - Innovation | 6 | A1X | 1 | E |
| TMKO01 | Advanced materials and the environment | 6 | A1X | 2 | E |
| TMKT48 | Design Optimization | 6 | A1X | 3 | E |
| TMKT59 | Computers as Design Tools | 6* | G2X | 3 | E |
| TMKT74 | Advanced CAD | 6 | A1X | 4 | E |
| TMMS30 | Multi Body Dynamics and Robotics | 6 | A1X | 1 | E |
| TMMV08 | Computational Fluid Dynamics | 6 | A1X | 3 | E |
| TMPS42 | Production System Automation | 6 | A1X | 1 | E |
| TMQU31 | Statistical Quality Control | 6 | A1X | 2 | E |
| TPPE78 | Quantitative Models and Analysis in Operations Management | 6 | A1X | 1 | E |
| TRTE16 | Basic Principles for Environmental Chemistry | 6* | G1X | 1 | E |
| TSFS04 | Electrical Drives | 6 | G2X | 4 | E |
| TSIU51 | Project with Microcontroller | 8* | G1X | 3 | E |
| TSRT07 | Industrial Control Systems | 6 | A1N | 2 | E |
| TMPP02 | Project Course - Race Vehicle Engineering | 6* | G1X | - | V |
| Period 2 | | | | | |
| TANA31 | Computational Methods for Ordinary and Partial Differential Equations | 6 | A1X | 2 | E |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| TDDD12 | Database Technology | 6 | G2X | 4 | Е |
| TEAE13 | Civil and Commercial Law | 6 | G1X | 2 | E |
| TEIO46 | Technology-based Projects and Organisations | 6* | G2X | 1 | Е |
| TEIO94 | Entrepreneurship and Idea Development | 6* | G2X | 4 | E |
| TETS36 | Sustainable Logistics Systems | 6 | A1X | 4 | E |
| TETS56 | Logistics and Quality in Health Care | 6 | A1X | 2 | Е |
| TGTU95 | Philosophy of Science and Technology | 6 | G1X | 4 | E |
| TKMJ29 | Resource Efficient Products | 6 | A1N | 1 | E |
| TMAL06 | Aircraft Conceptual Design - Project Course | 6 | A1X | 2 | Е |
| TMHL61 | Damage Mechanics and Life Analysis | 6 | A1X | 2 | E |
| ТМКМ09 | Engineering Materials for Lightweight Applications | 6 | A1X | 3 | E |
| TMKT57 | Product Modelling | 6 | A1X | 3 | E |
| TMKT59 | Computers as Design Tools | 6* | G2X | 3 | E |
| TMKT77 | System Safety | 6 | A1X | 4 | E |
| TMME11 | Road Vehicle Dynamics | 6 | A1X | 1 | E |
| TMME19 | Mechanics, second course | 6 | A1N | 1 | E |
| TMMS10 | Fluid Power Systems and Transmissions | 6 | A1X | 2 | E |
| TMMV07 | Computational Fluid Dynamics, advanced course | 6 | A1X | 4 | E |
| TMMV56 | Aerodynamics, Continued Course | 6 | A1X | 3 | E |
| TMPS27 | Production Systems | 6 | A1X | 3 | E |
| TMQU04 | Six Sigma Quality | 6 | A1X | 2 | E |
| TMQU13 | Customer Focused Product and Service Development | 6 | A1N | 4 | E |
| TPPE74 | Design and Development of Manufacturing Operations | 6 | A1F | 4 | E |
| TRTE16 | Basic Principles for Environmental Chemistry | 6* | G1X | 1 | E |
| TSFS03 | Vehicle Propulsion Systems | 6 | A1X | 3 | E |
| TSFS06 | Diagnosis and Supervision | 6 | A1N | 1 | E |
| TSFS11 | Electrical and Energy Technology | 6 | G2F | 4 | E |
| TSIU51 | Project with Microcontroller | 8* | G1X | - | E |
| TMPP02 | Project Course - Race Vehicle Engineering | 6* | G1X | - | V |
| | | | | | |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TMAL51 | Aircraft Conceptual Design | 6 | A1F | 2 | С |
| TMMV08 | Computational Fluid Dynamics | 6 | A1X | 3 | С |
| TMAL56 | Aircraft Systems Engineering | 6 | A1F | 1 | E |
| TMHL41 | Continuum Mechanics | 6 | A1X | 2 | E |
| TMHL62 | The Finite Element Method; advanced course | 6 | A1X | 4 | E |
| TMKO01 | Advanced materials and the environment | 6 | A1X | 2 | E |
| TMMS30 | Multi Body Dynamics and Robotics | 6 | A1X | 1 | E |
| Period 2 | | | | | |
| TMAL06 | Aircraft Conceptual Design - Project Course | 6 | A1X | 2 | С |
| TMHL61 | Damage Mechanics and Life Analysis | 6 | A1X | 2 | E |
| ТМКМ09 | Engineering Materials for Lightweight Applications | 6 | A1X | 3 | E |
| TMKT57 | Product Modelling | 6 | A1X | 3 | E |
| TMME11 | Road Vehicle Dynamics | 6 | A1X | 1 | E |
| TMMV07 | Computational Fluid Dynamics, advanced course | 6 | A1X | 4 | E |
| TMMV56 | Aerodynamics, Continued Course | 6 | A1X | 3 | E |
| - | | | | | |

Specialisation: Aeronautical Engineering

Specialisation: Energy and Environmental Engineering

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TKMJ10 | Industrial Ecology | 6 | A1X | 1 | С |
| TEIO46 | Technology-based Projects and Organisations | 6* | G2X | 4 | E |
| TMES17 | Building Energy Systems | 6 | A1N | 3 | E |
| Period 2 | | | | | |
| TKMJ29 | Resource Efficient Products | 6 | A1N | 1 | С |
| TEIO46 | Technology-based Projects and Organisations | 6* | G2X | 1 | E |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TMKT48 | Design Optimization | 6 | A1X | 3 | С |
| TMKT74 | Advanced CAD | 6 | A1X | 4 | С |
| TEIO46 | Technology-based Projects and Organisations | 6* | G2X | 4 | E |
| TMKO01 | Advanced materials and the environment | 6 | A1X | 2 | E |
| Period 2 | | | | | |
| ТМКТ77 | System Safety | 6 | A1X | 4 | С |
| TEIO46 | Technology-based Projects and Organisations | 6* | G2X | 1 | E |
| TKMJ29 | Resource Efficient Products | 6 | A1N | 1 | E |
| ТМКМ09 | Engineering Materials for Lightweight Applications | 6 | A1X | 3 | E |
| ТМКТ57 | Product Modelling | 6 | A1X | 3 | E |
| TMMS10 | Fluid Power Systems and Transmissions | 6 | A1X | 2 | E |

Specialisation: Engineering Design and Product Development

Specialisation: Engineering materials

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TMKO01 | Advanced materials and the environment | 6 | A1X | 2 | С |
| TEIO46 | Technology-based Projects and Organisations | 6* | G2X | 4 | E |
| TFFM40 | Analytical Methods in Materials Science | 6* | A1X | 1 | E |
| TFYA21 | Physical Metallurgy | 6 | A1F | 3 | E |
| TMHL41 | Continuum Mechanics | 6 | A1X | 2 | E |
| TMHL62 | The Finite Element Method; advanced course | 6 | A1X | 4 | E |
| TMKT48 | Design Optimization | 6 | A1X | 3 | E |
| Period 2 | | | | | |
| ТМКМ09 | Engineering Materials for Lightweight Applications | 6 | A1X | 3 | C/E |
| TEIO46 | Technology-based Projects and Organisations | 6* | G2X | 1 | E |
| TFFM40 | Analytical Methods in Materials Science | 6* | A1X | 1 | E |
| TMHL61 | Damage Mechanics and Life Analysis | 6 | A1X | 2 | E |
| | | | | | |



| | Specialisation: Engineering | Machani | 00 | | |
|----------------|---|---------|-------|---------------------|-----|
| Course code | Course name | Credits | Level | Timetable module | ECV |
| Period 1 | | | | | |
| TEIO46 | Technology-based Projects and Organisations | 6* | G2X | 4 | Е |
| TMHL41 | Continuum Mechanics | 6 | A1X | 2 | Ε |
| TMHL62 | The Finite Element Method; advanced course | 6 | A1X | 4 | Е |
| TMKO01 | Advanced materials and the environment | 6 | A1X | 2 | Е |
| TMMS30 | Multi Body Dynamics and Robotics | 6 | A1X | 1 | Е |
| TMMV08 | Computational Fluid Dynamics | 6 | A1X | 3 | Е |
| Period 2 | | | | | |
| TEIO46 | Technology-based Projects and Organisations | 6* | G2X | 1 | Е |
| TMHL61 | Damage Mechanics and Life Analysis | 6 | A1X | 2 | Е |
| ТМКМ09 | Engineering Materials for Lightweight Applications | 6 | A1X | 3 | E |
| TMME11 | Road Vehicle Dynamics | 6 | A1X | 1 | Е |
| TMME19 | Mechanics, second course | 6 | A1N | 1 | Е |
| TMMV07 | Computational Fluid Dynamics, advanced course | 6 | A1X | 4 | E |
| TMMV56 | Aerodynamics, Continued Course | 6 | A1X | 3 | Е |

Specialisation: Logistics

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TETS57 | Logistics Analysis | 6 | A1X | 2 | С |
| TEIO46 | Technology-based Projects and Organisations | 6* | G2X | 4 | E |
| Period 2 | | | | | |
| TEIO46 | Technology-based Projects and Organisations | 6* | G2X | 1 | E |
| TETS36 | Sustainable Logistics Systems | 6 | A1X | 4 | E |
| TETS56 | Logistics and Quality in Health Care | 6 | A1X | 2 | E |
| TPPE74 | Design and Development of Manufacturing Operations | 6 | A1F | 4 | E |



| Course name | Credits | Level | Timetable module | ECV |
|---|--|---|---|---|
| | | | | |
| Hydraulic Servo Systems | 6 | A1X | 3 | С |
| Technology-based Projects and Organisations | 6* | G2X | 4 | E |
| Multi Body Dynamics and Robotics | 6 | A1X | 1 | E |
| Electrical Drives | 6 | G2X | 4 | E |
| Industrial Control Systems | 6 | A1N | 2 | E |
| | | | | |
| Technology-based Projects and Organisations | 6* | G2X | 1 | E |
| Road Vehicle Dynamics | 6 | A1X | 1 | E |
| Fluid Power Systems and Transmissions | 6 | A1X | 2 | E |
| Vehicle Propulsion Systems | 6 | A1X | 3 | E |
| Diagnosis and Supervision | 6 | A1N | 1 | E |
| | Hydraulic Servo Systems Technology-based Projects and Organisations Multi Body Dynamics and Robotics Electrical Drives Industrial Control Systems Technology-based Projects and Organisations Road Vehicle Dynamics Fluid Power Systems and Transmissions Vehicle Propulsion Systems | Hydraulic Servo Systems6Technology-based Projects and Organisations6*Multi Body Dynamics and Robotics6Electrical Drives6Industrial Control Systems6Technology-based Projects and Organisations6*Road Vehicle Dynamics6Fluid Power Systems and Transmissions6Vehicle Propulsion Systems6 | Hydraulic Servo Systems6A1XTechnology-based Projects and Organisations6*G2XMulti Body Dynamics and Robotics6A1XElectrical Drives6G2XIndustrial Control Systems6A1NTechnology-based Projects and Organisations6*G2XIndustrial Control Systems6A1NFluid Power Systems and Transmissions6A1XVehicle Propulsion Systems6A1X | Course nameCreditsLevelImoduleHydraulic Servo Systems6A1X3Technology-based Projects and Organisations6*G2X4Multi Body Dynamics and Robotics6A1X1Electrical Drives6G2X4Industrial Control Systems6A1N2Technology-based Projects and Organisations6*G2X4Industrial Control Systems6A1N2Technology-based Projects and Organisations6*G2X1Fluid Power Systems and Transmissions6A1X2Vehicle Propulsion Systems6A1X3 |

Specialisation: Mechatronics

Specialisation: Operations Management

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TPPE78 | Quantitative Models and Analysis in Operations Management | 6 | A1X | 1 | C/E |
| TEIO46 | Technology-based Projects and Organisations | 6* | G2X | 4 | E |
| TMPS42 | Production System Automation | 6 | A1X | 1 | E |
| Period 2 | | | | | |
| TPPE74 | Design and Development of Manufacturing Operations | 6 | A1F | 4 | С |
| TEIO46 | Technology-based Projects and Organisations | 6* | G2X | 1 | E |
| TMPS27 | Production Systems | 6 | A1X | 3 | E |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TMPS42 | Production System Automation | 6 | A1X | 1 | С |
| TEIO46 | Technology-based Projects and Organisations | 6* | G2X | 4 | E |
| TMQU31 | Statistical Quality Control | 6 | A1X | 2 | E |
| TPPE78 | Quantitative Models and Analysis in Operations Management | 6 | A1X | 1 | E |
| Period 2 | | | | | |
| TEIO46 | Technology-based Projects and Organisations | 6* | G2X | 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 | A1N | 4 | E |
| TPPE74 | Design and Development of Manufacturing Operations | 6 | A1F | 4 | E |

Specialisation: Production Engineering

Specialisation: Qaulity Management



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TMQU31 | Statistical Quality Control | 6 | A1X | 2 | С |
| TAMS65 | Mathematical Statistics, second course | 6* | G2X | 4 | E |
| TEIO13 | Leadership and Organizational Change | 6 | A1X | 4 | E |
| TEIO46 | Technology-based Projects and Organisations | 6* | G2X | 4 | E |
| TMQU14 | Philosophy of Science and Research Methodology | 6 | A1X | - | E |
| Period 2 | | | | | |
| TMQU04 | Six Sigma Quality | 6 | A1X | 2 | C/E |
| TMQU13 | Customer Focused Product and Service Development | 6 | A1N | 4 | C/E |
| TAMS65 | Mathematical Statistics, second course | 6* | G2X | 2 | E |
| TEIM07 | Industrial Market Research | 6 | A1X | 2 | E |
| TEIO46 | Technology-based Projects and Organisations | 6* | G2X | 1 | E |
| TETS56 | Logistics and Quality in Health Care | 6 | A1X | 2 | E |
| TPPE74 | Design and Development of Manufacturing Operations | 6 | A1F | 4 | E |

Semester 9 (Autumn 2020)

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TAOP34 | Large Scale Optimization | 6 | A1X | 3 | Е |
| TBME04 | Anatomy and Physiology | 6 | G2X | 3 | Е |
| TETS23 | Purchasing | 6 | A1N | 2 | Е |
| TMAL07 | Prototype Realization - Project Course | 6 | A1X | - | E |
| TMHL19 | Advanced Material and Computational Mechanics | 6 | A1X | 1 | E |
| ТМКМ99 | Engineering Materials and Manufacturing Technology | 6 | A1X | 2 | E |
| ТМКО02 | Engineering Materials and Manufacturing Technology | 6 | A1X | 2 | E |
| TMKT79 | Collaborative Multidisciplinary Design Optimization | 6 | A1X | 2 | E |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| TMMS13 | Electro Hydraulic Systems | 6 | A1X | 3 | E |
| TMMV12 | Gas Turbine Engines | 6 | A1X | 4 | E |
| TMPS35 | Emerging Factory Technologies | 6 | A1N | 3 | E |
| TPPE99 | Simulation in Production and Logistics | 6 | A1X | 3 | E |
| TSFS12 | Autonomous Vehicles - Planning, Control, and Learning Systems | 6 | A1X | 1 | E |
| TSRT92 | Modelling and Learning for Dynamical Systems | 6 | A1X | 3 | E |
| TSTE25 | Power Electronics | 6 | A1X | 3 | E |
| Period 2 | | | | | |
| TAOP18 | Supply Chain Optimization | 6 | A1X | 1 | E |
| TETS31 | Logistics Strategies | 6 | A1X | 4 | E |
| TKMJ32 | Integrated Product Service Engineering | 6 | A1N | 3 | E |
| TMAL08 | Aircraft Systems Engineering - Project Course | 6 | A1X | - | E |
| TMES51 | International Energy Markets | 6 | A1N | 1 | E |
| TMHL26 | Aircraft Structures - Project Course | 6 | A1X | - | E |
| TMMS20 | Structural Optimization | 6 | A1X | 1 | E |
| TSRT08 | Optimal Control | 6 | A1X | 3 | E |
| TSRT78 | Digital Signal Processing | 6 | A1X | 2 | E |
| TSTE26 | Powergrid and Technology for Renewable Production | 6 | A1X | 3 | E |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TMAL07 | Prototype Realization - Project Course | 6 | A1X | - | С |
| TMMV12 | Gas Turbine Engines | 6 | A1X | 4 | С |
| Period 2 | | | | | |
| TMAL08 | Aircraft Systems Engineering - Project Course | 6 | A1X | - | C/E |
| TMHL26 | Aircraft Structures - Project Course | 6 | A1X | - | C/E |
| TMMV26 | Aircraft Aerodynamics - Project Course | 6 | A1X | - | C/E |
| ТМКМ90 | Engineering Materials - Deformation and Fracture | 6 | A1X | 2 | E |
| TMMS20 | Structural Optimization | 6 | A1X | 1 | E |
| TMMV54 | Computational Heat Transfer | 6 | A1X | 1 | E |

Specialisation: Aeronautical Engineering

Specialisation: Energy and Environmental Engineering

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TMPE08 | Project Course Advanced - Energy and Environmental Engineering | 12* | A1X | - | С |
| Period 2 | | | | | |
| TMPE08 | Project Course Advanced - Energy and Environmental Engineering | 12* | A1X | - | С |
| TKMJ32 | Integrated Product Service Engineering | 6 | A1N | 3 | E |
| TMES51 | International Energy Markets | 6 | A1N | 1 | E |
| | | | | | |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TMPM05 | Project Course Advanced - Design Engineering and Product Development | 12* | A1X | - | С |
| TMKT79 | Collaborative Multidisciplinary Design Optimization | 6 | A1X | 2 | E |
| Period 2 | | | | | |
| TMPM05 | Project Course Advanced - Design Engineering and Product Development | 12* | A1X | - | С |
| TMKU01 | Design Automation of Customized Products | 6 | A1X | 2 | E |

Specialisation: Engineering Design and Product Development

Specialisation: Engineering materials

| Course name | Credits | Level | Timetable module | ECV |
|---|---|--|--|---|
| | | | | |
| Project Course Advanced - Engineering Materials | 12* | A1X | - | С |
| Engineering Materials and Manufacturing Technology | 6 | A1X | 2 | C/E |
| Engineering Materials and Manufacturing Technology | 6 | A1X | 2 | C/E |
| Additive Manufacturing: Tools, Materials and Methods | 6 | A1X | 3 | E |
| Advanced Material and Computational Mechanics | 6 | A1X | 1 | E |
| CAD and Drafting Techniques, Continued Course | 6* | G2X | 2 | E |
| | | | | |
| Project Course Advanced - Engineering Materials | 12* | A1X | - | С |
| CAD and Drafting Techniques, Continued Course | 6* | G2X | 4 | E |
| | Project Course Advanced - Engineering Materials Engineering Materials and Manufacturing Technology Engineering Materials and Manufacturing Technology Additive Manufacturing: Tools, Materials and Methods Advanced Material and Computational Mechanics CAD and Drafting Techniques, Continued Course Project Course Advanced - Engineering Materials CAD and Drafting Techniques, Continued | Project Course Advanced - Engineering Materials12*Engineering Materials and Manufacturing Technology6Engineering Materials and Manufacturing Technology6Additive Manufacturing: Tools, Materials and Methods6Advanced Material and Computational Mechanics6CAD and Drafting Techniques, Continued Course6*Project Course Advanced - Engineering Materials12*CAD and Drafting Techniques, Continued Materials6* | Project Course Advanced - Engineering Materials12*A1XEngineering Materials and Manufacturing Technology6A1XEngineering Materials and Manufacturing Technology6A1XAdditive Manufacturing: Tools, Materials and Methods6A1XAdvanced Material and Computational Mechanics6A1XCAD and Drafting Techniques, Continued Course6*G2XProject Course Advanced - Engineering Materials12*A1X | Course nameCreditsLevelmoduleProject Course Advanced - Engineering Materials12*A1X-Engineering Materials and Manufacturing Technology6A1X2Engineering Materials and Manufacturing Technology6A1X2Additive Manufacturing: Tools, Materials and Methods6A1X3Additive Manufacturing: Tools, Materials and Methods6A1X3Advanced Material and Computational Mechanics6A1X1CAD and Drafting Techniques, Continued Course6*G2X2Project Course Advanced - Engineering Materials12*A1X-CAD and Drafting Techniques, Continued Materials6*G2X4 |



| Course name | Credits | Level | Timetable module | ECV |
|---|--|---|--|--|
| | | | | |
| Project Course Advanced - Applied Mechanics | 12* | A1X | - | С |
| Advanced Material and Computational Mechanics | 6 | A1X | 1 | E |
| Engineering Materials and Manufacturing Technology | 6 | A1X | 2 | E |
| Engineering Materials and Manufacturing Technology | 6 | A1X | 2 | E |
| Applied Computational Fluid Dynamics | 6 | A1X | 2 | E |
| | | | | |
| Project Course Advanced - Applied Mechanics | 12* | A1X | - | С |
| Structural Optimization | 6 | A1X | 1 | E |
| | Project Course Advanced - Applied Mechanics Advanced Material and Computational Mechanics Engineering Materials and Manufacturing Technology Engineering Materials and Manufacturing Technology Applied Computational Fluid Dynamics Project Course Advanced - Applied Mechanics | Project Course Advanced - Applied Mechanics12*Advanced Material and Computational Mechanics6Engineering Materials and Manufacturing Technology6Engineering Materials and Manufacturing Technology6Project Course Advanced - Applied Mechanics12* | Project Course Advanced - Applied Mechanics12*A1XAdvanced Material and Computational Mechanics6A1XEngineering Materials and Manufacturing Technology6A1XEngineering Materials and Manufacturing Technology6A1XProject Course Advanced - Applied Mechanics12*A1X | Course nameCreditsLevelmoduleProject Course Advanced - Applied Mechanics12*A1X-Advanced Material and Computational Mechanics6A1X1Engineering Materials and Manufacturing Technology6A1X2Engineering Materials and Manufacturing Technology6A1X2Project Course Advanced - Applied Mechanics121Project Course Advanced - Applied Mechanics12*A1X2 |

Specialisation: Engineering Mechanics

Specialisation: Logistics

| Course name | Credits | Level | Timetable module | ECV |
|--|---|--|---|---|
| | | | | |
| Logistics Project | 12* | A1X | 4 | С |
| Purchasing | 6 | A1N | 2 | E |
| Simulation in Production and Logistics | 6 | A1X | 3 | E |
| | | | | |
| Logistics Project | 12* | A1X | 2 | С |
| Supply Chain Optimization | 6 | A1X | 1 | E |
| Logistics Strategies | 6 | A1X | 4 | E |
| | Logistics Project Purchasing Simulation in Production and Logistics Logistics Project Supply Chain Optimization | Logistics Project12*Purchasing6Simulation in Production and Logistics6Logistics Project12*Supply Chain Optimization6 | Logistics Project12*A1XPurchasing6A1NSimulation in Production and Logistics6A1XLogistics Project12*A1XSupply Chain Optimization6A1X | Course nameCreditsLevelmoduleLogistics Project12*A1X4Purchasing6A1N2Simulation in Production and Logistics6A1X3Logistics Project12*A1X2Supply Chain Optimization6A1X1 |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TMPM06 | Project Course Advanced - Mechatronics | 12* | A1F | - | C/E |
| TSRT10 | Automatic Control - Project Course | 12* | A1F | 4 | C/E |
| TMMS13 | Electro Hydraulic Systems | 6 | A1X | 3 | E |
| TSFS12 | Autonomous Vehicles - Planning, Control, and Learning Systems | 6 | A1X | 1 | E |
| TSRT92 | Modelling and Learning for Dynamical Systems | 6 | A1X | 3 | E |
| Period 2 | | | | | |
| TMPM06 | Project Course Advanced - Mechatronics | 12* | A1F | - | C/E |
| TSRT10 | Automatic Control - Project Course | 12* | A1F | 4 | C/E |

Specialisation: Mechatronics

Specialisation: Operations Management

| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|---|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TPPE73 | Operations Management - Project Course | 12* | A1X | 4 | С |
| TPPE16 | Manufacturing Strategies | 6 | A1X | 2 | C/E |
| TMPS35 | Emerging Factory Technologies | 6 | A1N | 3 | E |
| TPPE99 | Simulation in Production and Logistics | 6 | A1X | 3 | E |
| Period 2 | | | | | |
| TPPE73 | Operations Management - Project Course | 12* | A1X | 4 | С |
| TAOP18 | Supply Chain Optimization | 6 | A1X | 1 | E |
| | | | | | |



| Course code | Course name | Credits | Level | Timetable module | ECV |
|----------------|--|---------|-------|---------------------|-----|
| Period 1 | | | | | |
| TMPM08 | Project Course Advanced - Manufacturing Engineering | 12* | A1X | - | С |
| TMPS35 | Emerging Factory Technologies | 6 | A1N | 3 | Е |
| TPPE16 | Manufacturing Strategies | 6 | A1X | 2 | E |
| TPPE99 | Simulation in Production and Logistics | 6 | A1X | 3 | E |
| Period 2 | | | | | |
| TMPM08 | Project Course Advanced - Manufacturing Engineering | 12* | A1X | - | С |

Specialisation: Production Engineering

Specialisation: Qaulity Management

| 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 |
| TEIM10 | Industrial Service Development | 6 | A1X | 2 | E |
| | | | | | |

Semester 10 (Spring 2021)

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

