

# Industrial Engineering and Management - International, M Sc in Engineering

300 credits

Civilingenjör i industriell ekonomi - internationell

6CIEI

Valid from:

**Determined by**

**Date determined**

## Entry requirements

### Degree in Swedish

Civilingenjör 300 hp och Teknologie master 120 hp

# Curriculum

## Semester 8 (Spring 2017)

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
TEIE06	Corporate Planning	6*	A1X	-	C
NBIC50	Ecotoxicology and Environmental Monitoring	6	G2X	1	E
TAMS29	Stochastic Processes Applied to Financial Models	6	A1F	3	E
TATA53	Linear Algebra, Honours Course	6*	G2F	-	E
TBMI26	Neural Networks and Learning Systems	6	A1N	2	E
Tddb68	Concurrent Programming and Operating Systems	6	G2X	3	E
TDDD17	Information Security, Second Course	6*	A1X	4	E
TDDD38	Advanced Programming in C++	6*	A1N	2	E
TDDD41	Data Mining - Clustering and Association Analysis	6	A1N	3	E
TDDD51	Service Design and Innovation	6	A1X	3	E
TDDD57	Physical Interaction and Game Programming	6	A1N	1	E
TDDD75	Effect-Driven Development and Human-Centered Design of Interactive Systems	6	G2X	3	E
TDDD97	Web Programming	6	G2F	3	E
TDEI70	Economic Perspectives on IT Use - for Individual, Organisation and Society	6	A1X	4	E
TDTS04	Computer Networks and Distributed Systems	8	G2F	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
TETS32	Logistics Analysis - Tools and Models	6	A1X	2	E
TFYA45	Biotechnology Project	6*	A1X	-	E
TFYA62	Introduction to Biosensor Technology	6	G2X	4	E
TGTU01	Technology and Ethics	6	G1X	1	E
TGTU91	Oral and Written Communication	6	G1F	2	E
TKMJ10	Industrial Ecology	6	A1X	1	E

Course code	Course name	Credits	Level	Timetable module	ECV
TKMJ15	Environmental Management Strategies	6	G1X	3	E
TKMJ47	Environmental Systems Analysis	6*	A1X	2	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
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
TPPE54	Advanced Planning and Scheduling	6	A1X	1	E
TSBB15	Computer Vision	12*	A1X	1	E
TSBK07	Computer Graphics	6*	A1X	4	E
TSBK08	Data Compression	6	A1N	2	E
TSKS13	Wireless Communications	6	A1F	4	E
TSRT07	Industrial Control Systems	6	A1X	2	E
TSRT09	Control Theory	6	A1X	3	E
TSTE08	Analog and Discrete-Time Integrated Circuits	6	A1X	3	E
TVCB11	Cellbiological Methodology	6	G2X	1/4	E
<b>Period 2</b>					
TEIE06	Corporate Planning	6*	A1X	-	C
TATA53	Linear Algebra, Honours Course	6*	G2F	-	E
TDDC78	Programming of Parallel Computers - Methods and Tools	6	A1X	3	E
TDDD05	Component Based Software	6	A1X	1	E
TDDD14	Formal Languages and Automata Theory	6	G2F	2	E
TDDD17	Information Security, Second Course	6*	A1X	4	E
TDDD27	Advanced Web Programming	6	A1N	3	E
TDDD38	Advanced Programming in C++	6*	A1N	-	E
TDEI21	Strategic Organisational Application of IT - Workflow and Knowledge Management	6	A1X	4	E
TDEI35	Strategy and Management Control	6	A1X	2	E

Course code	Course name	Credits	Level	Timetable module	ECV
TEIE95	Civil and Commercial Law	4	G1X	2	E
TEIM07	Industrial Market Research	6	A1X	2	E
TEIO06	Innovative Entrepreneurship	6	A1X	2	E
TEIO41	Corporate Social Responsibility	6	A1X	4	E
TETS36	Sustainable Logistics Systems	6	A1X	4	E
TETS56	Logistics and Quality in Health Care	6	A1X	4	E
TFYA45	Biotechnology Project	6*	A1X	-	E
TGTU76	Philosophy of Science	6	G1X	4	E
TKMJ47	Environmental Systems Analysis	6*	A1X	2	E
TMES21	Industrial Energy Systems	6	A1X	3	E
TMHL61	Damage Mechanics and Life Analysis	6	A1X	2	E
TMKT57	Product Modelling	6	A1X	3	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
TPPE19	Analysing and Improving Manufacturing Operation	6	A1X	4	E
TPPE33	Portfolio Management	6	A1X	2	E
TSBB15	Computer Vision	12*	A1X	3	E
TSBK02	Image and Audio Coding	6	A1X	4	E
TSBK07	Computer Graphics	6*	A1X	1	E
TSFS06	Diagnosis and Supervision	6	A1N	1	E
TSKS14	Multiple Antenna Communications	6	A1F	2	E
TSRT14	Sensor Fusion	6	A1X	2	E
TSTE06	Digital Filters	6	A1X	3	E

*Specialisation: Master Profile Automatic Control*

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
TSRT07	Industrial Control Systems	6	A1X	2	E
TSRT09	Control Theory	6	A1X	3	E
<b>Period 2</b>					
TSFS06	Diagnosis and Supervision	6	A1N	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
<b>Period 2</b>					
TDDD05	Component Based Software	6	A1X	1	C

*Specialisation: Master Profile Economic Information Systems*

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
TDEI70	Economic Perspectives on IT Use - for Individual, Organisation and Society	6	A1X	4	E
<b>Period 2</b>					
TDEI21	Strategic Organisational Application of IT - Workflow and Knowledge Management	6	A1X	4	E
TDEI35	Strategy and Management Control	6	A1X	2	E

*Specialisation: Master Profile Energy Engineering*

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

*Specialisation: Master Profile Finance*

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
TPPE32	Financial Risk Management	6	A1X	2	C
<b>Period 2</b>					
TPPE33	Portfolio Management	6	A1X	2	E

*Specialisation: Master Profile Industrial Marketing*

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
TEIM09	International Business	6	A1X	2	C/E
<b>Period 2</b>					
TEIM07	Industrial Market Research	6	A1X	2	C

*Specialisation: Master Profile Logistics Management*

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
TETS32	Logistics Analysis - Tools and Models	6	A1X	2	C/E
<b>Period 2</b>					
TETS36	Sustainable Logistics Systems	6	A1X	4	E
TETS56	Logistics and Quality in Health Care	6	A1X	4	E

*Specialisation: Master Profile Manufacturing*

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
TMPS42	Production System Automation	6	A1X	1	E
<b>Period 2</b>					
TMPS27	Production Systems	6	A1X	3	C

*Specialisation: Master Profile Manufacturing Management*

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
TPPE54	Advanced Planning and Scheduling	6	A1X	1	E
<b>Period 2</b>					
TPPE19	Analysing and Improving Manufacturing Operation	6	A1X	4	E

*Specialisation: Master Profile Product Development*

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
TMKT48	Design Optimization	6	A1X	3	C
<b>Period 2</b>					
TMKT57	Product Modelling	6	A1X	3	C

*Specialisation: Master Profile Project, Innovation and Entrepreneurship*

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
TEIO13	Leadership and Organizational Change	6	A1X	4	E
<b>Period 2</b>					
TEIO06	Innovative Entrepreneurship	6	A1X	2	E
TEIO41	Corporate Social Responsibility	6	A1X	4	E

*Specialisation: Master Profile Quality Technology and Management*

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
TEIO13	Leadership and Organizational Change	6	A1X	4	E
TMQU31	Statistical Quality Control	6	A1X	2	E
<b>Period 2</b>					
TDEI35	Strategy and Management Control	6	A1X	2	E
TETS56	Logistics and Quality in Health Care	6	A1X	4	E
TMQU04	Six Sigma Quality	6	A1X	2	E
TPPE19	Analysing and Improving Manufacturing Operation	6	A1X	4	E



*Specialisation: Master Profile Signal and Image Processing*

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
TBMI26	Neural Networks and Learning Systems	6	A1N	2	E
TSBB15	Computer Vision	12*	A1X	1	E
TSBK07	Computer Graphics	6*	A1X	4	E
<b>Period 2</b>					
TSBB15	Computer Vision	12*	A1X	3	E
TSBK02	Image and Audio Coding	6	A1X	4	E
TSBK07	Computer Graphics	6*	A1X	1	E

*Specialisation: Master Profile Strategic Management and Control*

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
TEIM09	International Business	6	A1X	2	E
TEIO13	Leadership and Organizational Change	6	A1X	4	E
<b>Period 2</b>					
TDEI21	Strategic Organisational Application of IT - Workflow and Knowledge Management	6	A1X	4	E
TEIM07	Industrial Market Research	6	A1X	2	E
TETS36	Sustainable Logistics Systems	6	A1X	4	E

*Specialisation: Master Profile Telecommunication*

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
TSBK08	Data Compression	6	A1N	2	E
TSKS13	Wireless Communications	6	A1F	4	E
<b>Period 2</b>					
TSBK02	Image and Audio Coding	6	A1X	4	E
TSKS14	Multiple Antenna Communications	6	A1F	2	E

*Specialisation: Master Profile Wood Technology*

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
TMKA04	Wood - Innovation	6	A1X	1	C
<b>Period 2</b>					
TMKT57	Product Modelling	6	A1X	3	E
TMPS27	Production Systems	6	A1X	3	E

*Specialisation: Specialization Biotechnical Engineering*

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
NBIC50	Ecotoxicology and Environmental Monitoring	6	G2X	1	E
TFYA45	Biotechnology Project	6*	A1X	-	E
TKMJ47	Environmental Systems Analysis	6*	A1X	2	E
<b>Period 2</b>					
TFYA45	Biotechnology Project	6*	A1X	-	E
TKMJ47	Environmental Systems Analysis	6*	A1X	2	E

*Specialisation: Specialization Computer Science and Engineering*

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
Tddb68	Concurrent Programming and Operating Systems	6	G2X	3	E
TDDD17	Information Security, Second Course	6*	A1X	4	E
TDDD38	Advanced Programming in C++	6*	A1N	2	E
TDDD41	Data Mining - Clustering and Association Analysis	6	A1N	3	E
TDDD75	Effect-Driven Development and Human-Centered Design of Interactive Systems	6	G2X	3	E
TDTS04	Computer Networks and Distributed Systems	8	G2F	2	E
<b>Period 2</b>					
TDDD05	Component Based Software	6	A1X	1	E
TDDD14	Formal Languages and Automata Theory	6	G2F	2	E
TDDD17	Information Security, Second Course	6*	A1X	4	E
TDDD27	Advanced Web Programming	6	A1N	3	E
TDDD38	Advanced Programming in C++	6*	A1N	-	E

*Specialisation: Specialization Electrical Engineering*

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
TBMI26	Neural Networks and Learning Systems	6	A1N	2	E
TSBB15	Computer Vision	12*	A1X	1	E
TSBK07	Computer Graphics	6*	A1X	4	E
TSBK08	Data Compression	6	A1N	2	E
TSKS13	Wireless Communications	6	A1F	4	E
TSRT07	Industrial Control Systems	6	A1X	2	E
TSRT09	Control Theory	6	A1X	3	E
<b>Period 2</b>					
TSBB15	Computer Vision	12*	A1X	3	E
TSBK02	Image and Audio Coding	6	A1X	4	E
TSBK07	Computer Graphics	6*	A1X	1	E
TSFS06	Diagnosis and Supervision	6	A1N	1	E
TSKS14	Multiple Antenna Communications	6	A1F	2	E
TSRT14	Sensor Fusion	6	A1X	2	E
TSTE06	Digital Filters	6	A1X	3	E

*Specialisation: Specialization Energy Engineering*

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
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
<b>Period 2</b>					
TMES21	Industrial Energy Systems	6	A1X	3	E
TMKT83	Small Scale Renewable Energy Conversion	6	A1X	4	E

*Specialisation: Specialization Mechanical Engineering*

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
TMKA04	Wood - Innovation	6	A1X	1	E
TMKT48	Design Optimization	6	A1X	3	E
TMMS21	Mechatronics	6	G2X	1	E
TMPS42	Production System Automation	6	A1X	1	E
<b>Period 2</b>					
TMHL61	Damage Mechanics and Life Analysis	6	A1X	2	E
TMKT57	Product Modelling	6	A1X	3	E
TMME11	Road Vehicle Dynamics	6	A1X	1	E
TMPS27	Production Systems	6	A1X	3	E

**Semester 9 (Autumn 2017)**

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
TAMS39	Multivariate Statistical Methods	6	A1N	4	E
TAMS46	Probability Theory, Second Course	6	A1N	3	E
Tddb84	Design Patterns	6	A1X	4	E
TDDC34	Technical, Economic and Societal Evaluation of IT-products	6	A1X	3	E
TDDD04	Software Testing	6	A1N	2	E
TDEI09	Strategic Application of IT: E-business and Knowledge Management	6	A1X	4	E
TEAE12	Strategic Analysis and Methods for Strategic Change	12*	A1F	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	A1X	1	E
TMME40	Vibration Analysis of Structures	6	A1X	3	E
TMMS11	Models of Mechanics	6*	A1X	3	E
TMMV01	Aerodynamics	6	A1X	2	E

Course code	Course name	Credits	Level	Timetable module	ECV
TMMV12	Gas Turbine Engines	6	A1X	4	E
TMPE01	Project Course Advanced - Energy Engineering	12*	A1X	-	E
TMPM05	Project Course Advanced - Design Engineering and Product Development	12*	A1X	-	E
TMPM08	Project Course Advanced - Manufacturing Engineering	12*	A1X	-	E
TMQU13	Customer Focused Product and Service Development	6	A1X	4	E
TMQU27	Quality Management - Project Course	12*	A1X	2	E
TPPE53	Financial Valuation Methodology	6	A1X	2	E
TPPE73	Operations Management - Project Course	12*	A1X	4	E
TPPE99	Simulation in Production and Logistics	6	A1X	3	E
TSIN01	Information Networks	6	A1X	3	E
TSIT03	Cryptology	6	A1X	2	E
TSKS12	Modern Channel Coding, Inference and Learning	6	A1N	1	E
<b>Period 2</b>					
TAOP18	Supply Chain Optimization	6	A1F	1	E
TDDB44	Compiler Construction	6	A1X	1	E
TDDC90	Software Security	6	A1N	1	E
TDDD30	Advanced Software Engineering	6	A1X	4	E
TDDD56	Multicore and GPU Programming	6	A1N	2	E
TDDD89	Scientific Method	6	A1F	3	E
TEAE12	Strategic Analysis and Methods for Strategic Change	12*	A1F	2	E
TEIM04	Industrial Market and Technology Strategies	12*	A1X	2	E
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	A1X	3	E

Course code	Course name	Credits	Level	Timetable module	ECV
TMKA03	Industrial Design	6	G2X	1	E
TMMS11	Models of Mechanics	6*	A1X	4	E
TMMS20	Structural Optimization	6	A1X	1	E
TMPE01	Project Course Advanced - Energy Engineering	12*	A1X	-	E
TMPM05	Project Course Advanced - Design Engineering and Product Development	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
<b>Period 2</b>					
TSRT08	Optimal Control	6	A1X	3	E

*Specialisation: Master Profile Computer Science and Engineering*

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
TDDB84	Design Patterns	6	A1X	4	C
TDDD04	Software Testing	6	A1N	2	C
<b>Period 2</b>					
TDDD89	Scientific Method	6	A1F	3	C

*Specialisation: Master Profile Economic Information Systems*

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

*Specialisation: Master Profile Energy Engineering*

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
TKMJ31	Biofuels for Transportation	6	A1X	1	E
TMMV12	Gas Turbine Engines	6	A1X	4	E
TMPE01	Project Course Advanced - Energy Engineering	12*	A1X	-	E
<b>Period 2</b>					
TMPE01	Project Course Advanced - Energy Engineering	12*	A1X	-	E

*Specialisation: Master Profile Finance*

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
TPPE53	Financial Valuation Methodology	6	A1X	2	E
<b>Period 2</b>					
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
<b>Period 1</b>					
TEIM04	Industrial Market and Technology Strategies	12*	A1X	2	C
<b>Period 2</b>					
TEIM04	Industrial Market and Technology Strategies	12*	A1X	2	C

*Specialisation: Master Profile Logistics Management*

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
TETS38	Logistics Project	12*	A1X	4	C
TPPE99	Simulation in Production and Logistics	6	A1X	3	E
<b>Period 2</b>					
TETS38	Logistics Project	12*	A1X	2	C
TETS31	Logistics Strategies	6	A1X	4	E



*Specialisation: Master Profile Manufacturing*

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
TMPM08	Project Course Advanced - Manufacturing Engineering	12*	A1X	-	C
<b>Period 2</b>					
TMPM08	Project Course Advanced - Manufacturing Engineering	12*	A1X	-	C

*Specialisation: Master Profile Manufacturing Management*

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
TPPE73	Operations Management - Project Course	12*	A1X	4	C
TPPE99	Simulation in Production and Logistics	6	A1X	3	E
<b>Period 2</b>					
TPPE73	Operations Management - Project Course	12*	A1X	4	C

*Specialisation: Master Profile Product Development*

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
TMPM05	Project Course Advanced - Design Engineering and Product Development	12*	A1X	-	C
<b>Period 2</b>					
TMPM05	Project Course Advanced - Design Engineering and Product Development	12*	A1X	-	C

*Specialisation: Master Profile Project, Innovation and Entrepreneurship*

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
TEIO89	Innovation and Entrepreneurship - Project Course	12*	A1X	4	C
<b>Period 2</b>					
TEIO89	Innovation and Entrepreneurship - Project Course	12*	A1X	4	C

*Specialisation: Master Profile Quality Technology and Management*

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
TMQU27	Quality Management - Project Course	12*	A1X	2	C
TMQU13	Customer Focused Product and Service Development	6	A1X	4	E
<b>Period 2</b>					
TMQU27	Quality Management - Project Course	12*	A1X	4	C

*Specialisation: Master Profile Strategic Management and Control*

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
TEAE12	Strategic Analysis and Methods for Strategic Change	12*	A1F	2	C
TDEI09	Strategic Application of IT: E-business and Knowledge Management	6	A1X	4	E
<b>Period 2</b>					
TEAE12	Strategic Analysis and Methods for Strategic Change	12*	A1F	2	C
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
<b>Period 1</b>					
TSIN01	Information Networks	6	A1X	3	E
TSIT03	Cryptology	6	A1X	2	E
TSKS12	Modern Channel Coding, Inference and Learning	6	A1N	1	E

*Specialisation: Master Profile Wood Technology*

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
TMPM05	Project Course Advanced - Design Engineering and Product Development	12*	A1X	-	C
<b>Period 2</b>					
TMPM05	Project Course Advanced - Design Engineering and Product Development	12*	A1X	-	C

*Specialisation: Specialization Biotechnical Engineering*

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 2</b>					
TFBI17	Advanced Project Course in Ecosystem Service Valuation	6	A1X	-	E

*Specialisation: Specialization Computer Science and Engineering*

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
Tddb84	Design Patterns	6	A1X	4	E
TDDD04	Software Testing	6	A1N	2	E
TSIT03	Cryptology	6	A1X	2	E

*Specialisation: Specialization Electrical Engineering*

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
TSIN01	Information Networks	6	A1X	3	E
TSIT03	Cryptology	6	A1X	2	E
TSKS12	Modern Channel Coding, Inference and Learning	6	A1N	1	E
<b>Period 2</b>					
TSRT08	Optimal Control	6	A1X	3	E

*Specialisation: Specialization Energy Engineering*

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
TKMJ31	Biofuels for Transportation	6	A1X	1	E
TMMV12	Gas Turbine Engines	6	A1X	4	E
TMPE01	Project Course Advanced - Energy Engineering	12*	A1X	-	E
<b>Period 2</b>					
TKMJ32	Integrated Product Service Engineering	6	A1X	3	E
TMPE01	Project Course Advanced - Energy Engineering	12*	A1X	-	E

*Specialisation: Specialization Mechanical Engineering*

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
TMME40	Vibration Analysis of Structures	6	A1X	3	E
TMMS11	Models of Mechanics	6*	A1X	3	E
TMMV01	Aerodynamics	6	A1X	2	E
TMPM05	Project Course Advanced - Design Engineering and Product Development	12*	A1X	-	E
TMPM08	Project Course Advanced - Manufacturing Engineering	12*	A1X	-	E
<b>Period 2</b>					
TKMJ32	Integrated Product Service Engineering	6	A1X	3	E
TMKA03	Industrial Design	6	G2X	1	E
TMMS11	Models of Mechanics	6*	A1X	4	E
TMMS20	Structural Optimization	6	A1X	1	E
TMPM05	Project Course Advanced - Design Engineering and Product Development	12*	A1X	-	E
TMPM08	Project Course Advanced - Manufacturing Engineering	12*	A1X	-	E

## Semester 10 (Spring 2018)

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
TQXX33	Degree project - Master's Thesis	30*	A1X	-	C
<b>Period 2</b>					
TQXX33	Degree project - Master's Thesis	30*	A1X	-	C

ECV = Elective / Compulsory / Voluntary

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