

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	Е
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
ТРТЕО6	Industrial Placement	6	G1X	-	E

Semester 5 (Autumn 2018)

David 4	С
Period 1	_
TMEL08 Electrical Systems 6 G2X 4	C
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
TMKT39 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	Е
THTY05	German	6*	G1X	4	E
Period 2					_
TMMT31	Bachelor Thesis - Mechanical Engineering	18*	G2X	-	С
THFR05	Communicative French	6*	G1X	4	Е
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	Е
TDDE18	Programming C++	6*	G2X	2	E
TEIM11	Industrial Marketing	6	G2X	3	E
TETS37	Basics in Logistics Management	6	G2X	4	Е
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	Е
TKMJ31	Biofuels for Transportation	6	A1N	1	E
TMAL02	Aircraft and Vehicle Design	6	G2F	4	E
TMES09	Industrial Energy Systems	6	A1X	3	Е
TMES27	Modelling of Energy Systems	6	A1N	3	E
TMHP02	Fluid Power Systems	6	G2X	2	E



Course code	Course name	Credits	Level	Timetable module	ECV
TMKM17	Polymer Materials	6	A1X	2	E
ТМКТ69	Conceptual Design - Project Course	6	A1N	4	E
TMKT80	Wood - Material	6	G2X	2	E
TMME14	Machine Elements, Second Course	6	A1X	3	E
TMME40	Vibration Analysis of Structures	6	A1X	3	E
TMME64	Biomechanics, basic course	6	G2X	2	E
TMMI68	CAD and Drafting Techniques, Continued Course	6*	G2X	2	E
TMMS11	Models of Mechanics	6*	A1X	3	E
TMMV01	Aerodynamics	6	A1X	2	E
TMPS33	Virtual Manufacturing	6	A1N	4	E
TMPT03	Production Engineering - Continuing Course	6	G2F	2	E
TMQU03	Quality Management and Engineering	6	G2X	2	E
TPPE16	Manufacturing Strategies	6	A1X	2	E
TSFS09	Modelling and Control of Engines and Drivelines	6*	A1X	4	E
TSFS12	Autonomous Vehicles - Planning, Control, and Learning Systems	6	A1X	1	E
TMPP02	Project Course - Race Vehicle Engineering	6*	G1X	-	V
Period 2					
TATA71	Ordinary Differential Equations and Dynamical Systems	6	G2X	2	E
TDDE18	Programming C++	6*	G2X	1	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
TFYA96	The physics behind technology	6	G2X	4	E
TGTU04	Leadership	6	G2X	2	E
TGTU49	History of Technology	6	G1X	3	E
TKMJ28	Management Systems and Sustainability	6	A1X	2	E
TMES25	Energy Resources	6	A1X	3	E
TMES45	Energy Planning and Modelling of Communities	6	A1F	4	E
TMHL03	Mechanics of Light Structures	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	Е
TMMV54	Computational Heat Transfer	6	A1X	1	Е
TMPS22	Assembly Technology	6	A1X	3	Е
TMPS31	Sustainable Manufacturing	6	A1X	1	E
TMQU12	Lean Production	6	A1X	2	E
TPPE76	Operations Planning and Control	6	A1X	4	Е
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



Specialisation: Aeronautical Engineering

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: 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	Е
Period 2					
TMES25	Energy Resources	6	A1X	3	С
TKMJ28	Management Systems and Sustainability	6	A1X	2	Е
TMES45	Energy Planning and Modelling of Communities	6	A1F	4	E



Specialisation: Engineering Design and Product Development

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	Е
Period 2					
ТМНР03	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 materials

Course name	Credits	Level	Timetable module	ECV
Engineering Optimization	6	G2X	1	С
Polymer Materials	6	A1X	2	С
Principles of Materials Science	6	A1X	2	Е
Conceptual Design - Project Course	6	A1N	4	E
Wood - Material	6	G2X	2	E
Machine Elements, Second Course	6	A1X	3	E
Production Engineering - Continuing Course	6	G2F	2	Е
Engineering Materials - Deformation and Fracture	6	A1X	2	С
Mechanics of Light Structures	6	A1X	3	E
Computational Heat Transfer	6	A1X	1	E
Sustainable Manufacturing	6	A1X	1	E
	Engineering Optimization Polymer Materials Principles of Materials Science Conceptual Design - Project Course Wood - Material Machine Elements, Second Course Production Engineering - Continuing Course Engineering Materials - Deformation and Fracture Mechanics of Light Structures Computational Heat Transfer	Engineering Optimization 6 Polymer Materials 6 Principles of Materials Science 6 Conceptual Design - Project Course 6 Wood - Material 6 Machine Elements, Second Course 6 Production Engineering - Continuing Course 6 Engineering Materials - Deformation and Fracture 6 Mechanics of Light Structures 6 Computational Heat Transfer 6	Engineering Optimization 6 G2X Polymer Materials 6 A1X Principles of Materials Science 6 A1X Conceptual Design - Project Course 6 A1N Wood - Material 6 G2X Machine Elements, Second Course 6 A1X Production Engineering - Continuing Course 6 G2F Engineering Materials - Deformation and Fracture 6 A1X Mechanics of Light Structures 6 A1X Computational Heat Transfer 6 A1X	Engineering Optimization 6 G2X 1 Polymer Materials 6 A1X 2 Principles of Materials Science 6 A1X 2 Conceptual Design - Project Course 6 A1N 4 Wood - Material 6 G2X 2 Machine Elements, Second Course 6 A1X 3 Production Engineering - Continuing Course 6 G2F 2 Engineering Materials - Deformation and Fracture 6 A1X 3 Computational Heat Transfer 6 A1X 1



Specialisation: Engineering Mechanics

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: 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



Specialisation: Mechatronics

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TAOP88	Engineering Optimization	6	G2X	1	С
TMHP02	Fluid Power Systems	6	G2X	2	С
TSFS09	Modelling and Control of Engines and Drivelines	6*	A1X	4	С
TSFS12	Autonomous Vehicles - Planning, Control, and Learning Systems	6	A1X	1	E
Period 2					
TSFS09	Modelling and Control of Engines and Drivelines	6*	A1X	3	С
TSRT06	Automatic Control, Advanced Course	6	A1X	2	С
TMME50	Flight Mechanics	6	A1X	2	E
TSFS02	Vehicle Dynamics and Control	6	A1X	1	E

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	Е
TMPT03	Production Engineering - Continuing Course	6	G2F	2	Е
TPPE17	Corporate Finance	6	G2X	4	Е
Period 2					
TMQU12	Lean Production	6	A1X	2	С
TMPS22	Assembly Technology	6	A1X	3	Е
TMPS31	Sustainable Manufacturing	6	A1X	1	E
TPPE76	Operations Planning and Control	6	A1X	4	E



Specialisation: Production Engineering

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	Е
TMQU03	Quality Management and Engineering	6	G2X	2	E
TPPE16	Manufacturing Strategies	6	A1X	2	Е
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

$Specialisation: Qaulity\ Management$

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	Е
TETS37	Basics in Logistics Management	6	G2X	4	E
TPPE16	Manufacturing Strategies	6	A1X	2	Е
Period 2					
TMQU12	Lean Production	6	A1X	2	С
TETS27	Supply Chain Logistics	6	A1X	2	Е

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	Е



Course code	Course name	Credits	Level	Timetable module	ECV
TEIO94	Entrepreneurship and Idea Development	6*	G2X	4	E
TETS57	Logistics Analysis	6	A1X	2	Е
TGTU91	Oral and Written Communication	6	G1X	2	E
TGTU94	Technology and Ethics	6	G1X	1	E
TKMJ10	Industrial Ecology	6	A1X	1	Е
TKMJ15	Environmental Management Strategies	6	G1F	3	E
TMAL51	Aircraft Conceptual Design	6	A1F	2	E
TMAL56	Aircraft Systems Engineering	6	A1F	1	E
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	E
TMHP51	Hydraulic Servo Systems	6	A1X	3	Е
TMKA04	Wood - Innovation	6	A1X	1	E
TMKO01	Advanced materials and the environment	6	A1X	2	Е
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	Е
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	Е
TEIO46	Technology-based Projects and Organisations	6*	G2X	1	E
TEIO94	Entrepreneurship and Idea Development	6*	G2X	4	E
TETS36	Sustainable Logistics Systems	6	A1X	4	Е
TETS56	Logistics and Quality in Health Care	6	A1X	2	Е
TGTU95	Philosophy of Science and Technology	6	G1X	4	Е
TKMJ29	Resource Efficient Products	6	A1N	1	Е
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	Е
TMKT59	Computers as Design Tools	6*	G2X	3	Е
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	Е
TSFS03	Vehicle Propulsion Systems	6	A1X	3	E
TSFS06	Diagnosis and Supervision	6	A1N	1	Е
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



Specialisation: Aeronautical Engineering

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
TMKM09	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: 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	Е



Specialisation: Engineering Design and Product Development

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					
TMKT77	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
TMKT57	Product Modelling	6	A1X	3	Е
TMMS10	Fluid Power Systems and Transmissions	6	A1X	2	E

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	Е
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 Mechanics

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	Е
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
TMMV08	Computational Fluid Dynamics	6	A1X	3	E
Period 2					
TEIO46	Technology-based Projects and Organisations	6*	G2X	1	E
TMHL61	Damage Mechanics and Life Analysis	6	A1X	2	E
ТМКМ09	Engineering Materials for Lightweight Applications	6	A1X	3	E
TMME11	Road Vehicle Dynamics	6	A1X	1	E
TMME19	Mechanics, second course	6	A1N	1	E
TMMV07	Computational Fluid Dynamics, advanced course	6	A1X	4	E
TMMV56	Aerodynamics, Continued Course	6	A1X	3	E

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



Specialisation: Mechatronics

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TMHP51	Hydraulic Servo Systems	6	A1X	3	С
TEIO46	Technology-based Projects and Organisations	6*	G2X	4	E
TMMS30	Multi Body Dynamics and Robotics	6	A1X	1	E
TSFS04	Electrical Drives	6	G2X	4	E
TSRT07	Industrial Control Systems	6	A1N	2	E
Period 2					
TEIO46	Technology-based Projects and Organisations	6*	G2X	1	E
TMME11	Road Vehicle Dynamics	6	A1X	1	Е
TMMS10	Fluid Power Systems and Transmissions	6	A1X	2	E
TSFS03	Vehicle Propulsion Systems	6	A1X	3	E
TSFS06	Diagnosis and Supervision	6	A1N	1	E

$Specialisation: Operations\ Management$

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	Е



Specialisation: Production Engineering

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	Е
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: 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	Е
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	E
TBME04	Anatomy and Physiology	6	G2X	3	E
TETS23	Purchasing	6	A1N	2	E
TMAL07	Prototype Realization - Project Course	6	A1X	-	Е
TMHL19	Advanced Material and Computational Mechanics	6	A1X	1	E
ТМКМ99	Engineering Materials and Manufacturing Technology	6	A1X	2	E
TMKO02	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	Е
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	Е
TKMJ32	Integrated Product Service Engineering	6	A1N	3	E
TMAL08	Aircraft Systems Engineering - Project Course	6	A1X	-	Е
TMES51	International Energy Markets	6	A1N	1	E
TMHL26	Aircraft Structures - Project Course	6	A1X	-	E
TMMS20	Structural Optimization	6	A1X	1	Е
TSRT08	Optimal Control	6	A1X	3	Е
TSRT78	Digital Signal Processing	6	A1X	2	E
TSTE26	Powergrid and Technology for Renewable Production	6	A1X	3	E



Specialisation: Aeronautical Engineering

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: 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	Е
TMES51	International Energy Markets	6	A1N	1	E



Specialisation: Engineering Design and 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
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	Е

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 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 CAD and Drafting Techniques, Continued 6*	Project Course Advanced - Engineering Materials Engineering Materials and Manufacturing Technology Engineering Materials and Manufacturing Technology Engineering Materials and Manufacturing 6 A1X Additive Manufacturing: Tools, Materials and Methods Advanced Material and Computational 6 A1X CAD and Drafting Techniques, Continued Course Project Course Advanced - Engineering Materials CAD and Drafting Techniques, Continued 6* G2X CAD and Drafting Techniques, Continued 6* G2X	Project Course Advanced - Engineering Materials and Manufacturing Technology Additive Manufacturing: Tools, Materials and Methods Advanced Material and Computational Mechanics CAD and Drafting Techniques, Continued Course CAD and Drafting Techniques, Continued Materials CAD and Drafting Techniques, Continued Course CAD and Drafting Techniques, Continued Materials CAD and Drafting Techniques, Continued Course CAD and Drafting Techniques, Continued Course Project Course Advanced - Engineering Materials CAD and Drafting Techniques, Continued Course CAD and Drafting Techniques, Continued Course Advanced - Engineering Materials CAD and Drafting Techniques, Continued Course Course Course Advanced - Engineering Materials CAD and Drafting Techniques, Continued Course Course Course Continued Course Course Course Course Continued Course Cour



Specialisation: Engineering Mechanics

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TMPM07	Project Course Advanced - Applied Mechanics	12*	A1X	-	С
TMHL19	Advanced Material and Computational Mechanics	6	A1X	1	E
ТМКМ99	Engineering Materials and Manufacturing Technology	6	A1X	2	E
TMKO02	Engineering Materials and Manufacturing Technology	6	A1X	2	E
TMMV59	Applied Computational Fluid Dynamics	6	A1X	2	Е
Period 2					
TMPM07	Project Course Advanced - Applied Mechanics	12*	A1X	-	С
TMMS20	Structural Optimization	6	A1X	1	E

Specialisation: Logistics

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TETS38	Logistics Project	12*	A1X	4	С
TETS23	Purchasing	6	A1N	2	E
TPPE99	Simulation in Production and Logistics	6	A1X	3	Е
Period 2					
TETS38	Logistics Project	12*	A1X	2	С
TAOP18	Supply Chain Optimization	6	A1X	1	E
TETS31	Logistics Strategies	6	A1X	4	E



Specialisation: Mechatronics

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

$Specialisation:\ Operations\ Management$

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



Specialisation: Production Engineering

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	E
TPPE16	Manufacturing Strategies	6	A1X	2	Е
TPPE99	Simulation in Production and Logistics	6	A1X	3	E
Period 2					
TMPM08	Project Course Advanced - Manufacturing Engineering	12*	A1X	-	С

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

