

Industrial Engineering and Management - International, M Sc in Engineering

300 credits

Civilingenjör i industriell ekonomi - internationell

6CIEI

Valid from: 2014 Spring semester

Determined byBoard of Studies for Industrial
Engineering and Logistics

Date determined

Entry requirements

Degree in Swedish

Civilingenjör 300 hp och Teknologie master 120 hp



Curriculum

Semester 6 (Spring 2017)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TEIM32	Industrial Marketing	6	G2X	4	С
TDDD81	Database Technology	6*	G2F	2	E
TDDD83	Computer Engineering - Bachelor Project	18*	G2E	1/3	E
TDDE11	Object Oriented Programming in Java	4	G2X	2	E
TFBI23	Ecology and the Environment	6	G1X	3	E
TFBI24	Biotechnology - Bachelor Project	18*	G2E	2	E
ТКМЈ39	Resource Efficient Products and Production	6	G2X	1	E
TMKT14	CAD and Machine Elements	6	G2X	1	Е
TMMV16	Energy Engineering - Bachelor Project	18*	G2X	3	E
TMPS32	Mechanical Engineering - Bachelor Project	18*	G2X	3	E
TSEA56	Electronics Engineering - Bachelor Project	16*	G2X	2	Е
Period 2					
TDDD12	Database Technology	6	G2F	4	Е
TDDD81	Database Technology	6*	G2F	4	E
TDDD83	Computer Engineering - Bachelor Project	18*	G2E	1/3	E
TFBI24	Biotechnology - Bachelor Project	18*	G2E	2/3/4	E
TMMV16	Energy Engineering - Bachelor Project	18*	G2X	3	E
TMPS32	Mechanical Engineering - Bachelor Project	18*	G2X	3	E
TSEA56	Electronics Engineering - Bachelor Project	16*	G2X	-	E
TSKS10	Signals, Information and Communication	4	G2X	3	E

Specialisation: Specialization Biotechnical Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TFBI23	Ecology and the Environment	6	G1X	3	С
TFBI24	Biotechnology - Bachelor Project	18*	G2E	2	E
Period 2					
TFBI24	Biotechnology - Bachelor Project	18*	G2E	2/3/4	E



Specialisation: Specialization Computer Science and Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDDD81	Database Technology	6*	G2F	2	Е
TDDD83	Computer Engineering - Bachelor Project	18*	G2E	1/3	E
Period 2					
TDDD12	Database Technology	6	G2F	4	С
TDDD81	Database Technology	6*	G2F	4	E
TDDD83	Computer Engineering - Bachelor Project	18*	G2E	1/3	E

Specialisation: Specialization Electrical Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDDE11	Object Oriented Programming in Java	4	G2X	2	С
TSEA56	Electronics Engineering - Bachelor Project	16*	G2X	2	E
Period 2					
TSKS10	Signals, Information and Communication	4	G2X	3	С
TSEA56	Electronics Engineering - Bachelor Project	16*	G2X	-	E

Specialisation: Specialization Energy Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TKMJ39	Resource Efficient Products and Production	6	G2X	1	С
TMMV16	Energy Engineering - Bachelor Project	18*	G2X	3	E
Period 2					
TMMV16	Energy Engineering - Bachelor Project	18*	G2X	3	E



Specialisation: Specialization Mechanical Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TMKT14	CAD and Machine Elements	6	G2X	1	С
TMPS32	Mechanical Engineering - Bachelor Project	18*	G2X	3	E
Period 2					
TMPS32	Mechanical Engineering - Bachelor Project	18*	G2X	3	E

Semester 7 (Autumn 2017)

THSP18 Spanish for Engineers III 6* G2X - C TAMS32 Stochastic Processes 6 A1N 1 E TAMS46 Probability Theory, Second Course 6 A1N 3 E TANA21 Scientific Computing 6 G1F 3 E TAOP34 Large Scale Optimization 6 A1N 3 E TATA34 Real Analysis, Honours Course 6* G2F 4 E TATA44 Vector Analysis 4 G1F 1 E TDDC17 Artificial Intelligence 6 G2F 3 E TDDC88 Software Engineering 12* A1N 1 E TDDD23 Design and Programming of Computer Games 6 A1N 2 E TDDD38 Advanced Programming in C++ 6* A1N 2 E TDDD43 Advanced Data Models and Databases 6* A1N 2 E TDDD48 Programming C++ 6* G2F 4 E TDDE18 Programming C++ 6* G2F 4 E TDE19 Strategic Application of IT: E-business and Knowledge Management 6 A1X 4 E TEIE72 Corporate Strategies 6 A1X 4 E TEIOO7 Project Based Organization and Management 6 A1X 4 E TEIO90 Innovation Management 6 A1X 2 E TETS23 Purchasing 6 A1N 2 E	Course code	Course name	Credits	Level	Timetable module	ECV
TAMS32 Stochastic Processes 6 A1N 1 E TAMS46 Probability Theory, Second Course 6 A1N 3 E TANA21 Scientific Computing 6 G1F 3 E TAOP34 Large Scale Optimization 6 A1N 3 E TATA34 Real Analysis, Honours Course 6* G2F 4 E TATA44 Vector Analysis 4 G1F 1 E TDDC17 Artificial Intelligence 6 G2F 3 E TDDC88 Software Engineering 12* A1N 1 E TDDD23 Design and Programming of Computer Games 6 A1N 2 E TDDD38 Advanced Programming in C++ 6* A1N 2 E TDDD43 Advanced Data Models and Databases 6* A1N 2 E TDDE18 Programming C++ 6* G2F 4 E TDE109 Strategic Application of IT: E-business and Knowledge Management 6 A1X 4 E TDE113 Enterprise Resource Planning Systems: Process and Implementation 6 A1X 4 E TEIC72 Corporate Strategies 6 A1X 4 E TEIC75 Project Based Organization and Management 6 A1X 4 E TEIC90 Innovation Management 6 A1X 2 E TETS23 Purchasing 6 A1N 2 E	Period 1					
TAMS46 Probability Theory, Second Course 6 A1N 3 E TANA21 Scientific Computing 6 G1F 3 E TAOP34 Large Scale Optimization 6 A1N 3 E TATA34 Real Analysis, Honours Course 6* G2F 4 E TATA44 Vector Analysis 4 G1F 1 E TDDC17 Artificial Intelligence 6 G2F 3 E TDDC88 Software Engineering 12* A1N 1 E TDDD23 Design and Programming of Computer Games 6 A1N 2 E TDDD38 Advanced Programming in C++ 6* A1N 2 E TDDD43 Advanced Data Models and Databases 6* A1N 2 E TDDE18 Programming C++ 6* G2F 4 E TDE109 Strategic Application of IT: E-business and Knowledge Management 6 A1X 4 E TDE113 Enterprise Resource Planning Systems: Process and Implementation 6 A1X 4 E TEIC72 Corporate Strategies 6 A1X 4 E TEIO07 Project Based Organization and Management 6 A1X 4 E TEIO90 Innovation Management 6 A1X 2 E	THSP18	Spanish for Engineers III	6*	G2X	-	С
TANA21 Scientific Computing 6 G1F 3 E TAOP34 Large Scale Optimization 6 A1N 3 E TATA34 Real Analysis, Honours Course 6* G2F 4 E TATA44 Vector Analysis 4 G1F 1 E TDDC17 Artificial Intelligence 6 G2F 3 E TDDC88 Software Engineering 12* A1N 1 E TDDD23 Design and Programming of Computer Games 6 A1N 2 E TDDD38 Advanced Programming in C++ 6* A1N 2 E TDDD43 Advanced Data Models and Databases 6* A1N 2 E TDDE18 Programming C++ 6* G2F 4 E TDE109 Strategic Application of IT: E-business and Knowledge Management 6 A1X 4 E TDE113 Enterprise Resource Planning Systems: Process and Implementation 6 A1X 4 E TEIO07 Project Based Organization and Management 6 A1X 4 E TEIO00 Innovation Management 6 A1X 2 E TEIO00 Innovation Management 6 A1X 2 E	TAMS32	Stochastic Processes	6	A1N	1	E
TAOP34 Large Scale Optimization 6 A1N 3 E TATA34 Real Analysis, Honours Course 6* G2F 4 E TATA44 Vector Analysis 4 G1F 1 E TDDC17 Artificial Intelligence 6 G2F 3 E TDDC88 Software Engineering 12* A1N 1 E TDDD23 Design and Programming of Computer Games 6 A1N 2 E TDDD38 Advanced Programming in C++ 6* A1N 2 E TDDD43 Advanced Data Models and Databases 6* A1N 2 E TDDE18 Programming C++ 6* G2F 4 E TDE109 Strategic Application of IT: E-business and Knowledge Management 6 A1X 4 E TDE113 Enterprise Resource Planning Systems: Process and Implementation 6 A1X 4 E TEIC72 Corporate Strategies 6 A1X 4 E TEIC72 Corporate Strategies 6 A1X 4 E TEIC72 Innovation Management 6 A1X 4 E TEIC73 Purchasing 6 A1X 2 E	TAMS46	Probability Theory, Second Course	6	A1N	3	E
TATA34 Real Analysis, Honours Course 6* G2F 4 E TATA44 Vector Analysis 4 G1F 1 E TDDC17 Artificial Intelligence 6 G2F 3 E TDDC88 Software Engineering 12* A1N 1 E TDDD23 Design and Programming of Computer Games 6 A1N 2 E TDDD38 Advanced Programming in C++ 6* A1N 2 E TDDD43 Advanced Data Models and Databases 6* A1N 2 E TDDE18 Programming C++ 6* G2F 4 E TDE109 Strategic Application of IT: E-business and Knowledge Management 6 A1X 4 E TDE113 Enterprise Resource Planning Systems: Process and Implementation 6 A1X 4 E TEIC72 Corporate Strategies 6 A1X 4 E TEIO07 Project Based Organization and Management 6 A1X 4 E TEIO90 Innovation Management 6 A1X 2 E	TANA21	Scientific Computing	6	G1F	3	E
TATA44 Vector Analysis 4 G1F 1 E TDDC17 Artificial Intelligence 6 G2F 3 E TDDC88 Software Engineering 12* A1N 1 E TDDD23 Design and Programming of Computer Games 6 A1N 2 E TDDD38 Advanced Programming in C++ 6* A1N 2 E TDDD43 Advanced Data Models and Databases 6* A1N 2 E TDDE18 Programming C++ 6* G2F 4 E TDE109 Strategic Application of IT: E-business and Knowledge Management 6 A1X 4 E TDE113 Enterprise Resource Planning Systems: Process and Implementation 6 A1X 4 E TEIC72 Corporate Strategies 6 A1X 4 E TEIO07 Project Based Organization and Management 6 A1X 4 E TEIO90 Innovation Management 6 A1X 2 E	TAOP34	Large Scale Optimization	6	A1N	3	E
TDDC17Artificial Intelligence6G2F3ETDDC88Software Engineering12*A1N1ETDDD23Design and Programming of Computer Games6A1N2ETDDD38Advanced Programming in C++6*A1N2ETDDD43Advanced Data Models and Databases6*A1N2ETDE18Programming C++6*G2F4ETDE19Strategic Application of IT: E-business and Knowledge Management6A1X4ETDE113Enterprise Resource Planning Systems: Process and Implementation6A1X2ETEIE72Corporate Strategies6A1X4ETEIO07Project Based Organization and Management6A1X4ETEIO90Innovation Management6A1X2ETETS23Purchasing6A1N2E	TATA34	Real Analysis, Honours Course	6*	G2F	4	E
TDDC88 Software Engineering 12* A1N 1 E TDDD23 Design and Programming of Computer Games 6 A1N 2 E TDDD38 Advanced Programming in C++ 6* A1N 2 E TDDD43 Advanced Data Models and Databases 6* A1N 2 E TDDE18 Programming C++ 6* G2F 4 E TDE109 Strategic Application of IT: E-business and Knowledge Management 6 A1X 4 E TDE113 Enterprise Resource Planning Systems: Process and Implementation 6 A1X 4 E TEIE72 Corporate Strategies 6 A1X 4 E TEIO07 Project Based Organization and Management 6 A1X 4 E TEIO90 Innovation Management 6 A1X 2 E TETS23 Purchasing 6 A1N 2 E	TATA44	Vector Analysis	4	G1F	1	E
TDDD23 Design and Programming of Computer Games 6 A1N 2 E TDDD38 Advanced Programming in C++ 6* A1N 2 E TDDD43 Advanced Data Models and Databases 6* A1N 2 E TDDE18 Programming C++ 6* G2F 4 E TDE109 Strategic Application of IT: E-business and Knowledge Management 6 A1X 4 E TDE113 Enterprise Resource Planning Systems: Process and Implementation 6 A1X 4 E TEIE72 Corporate Strategies 6 A1X 4 E TEIO07 Project Based Organization and Management 6 A1X 4 E TEIO90 Innovation Management 6 A1X 2 E TETS23 Purchasing 6 A1N 2 E	TDDC17	Artificial Intelligence	6	G2F	3	E
TDDD38 Advanced Programming in C++ 6* A1N 2 E TDDD43 Advanced Data Models and Databases 6* A1N 2 E TDDE18 Programming C++ 6* G2F 4 E TDE109 Strategic Application of IT: E-business and Knowledge Management 6 A1X 4 E TDE113 Enterprise Resource Planning Systems: Process and Implementation 6 A1X 4 E TEIE72 Corporate Strategies 6 A1X 4 E TEIO07 Project Based Organization and Management 6 A1X 4 E TEIO90 Innovation Management 6 A1X 2 E TETS23 Purchasing 6 A1N 2 E	TDDC88	Software Engineering	12*	A1N	1	E
TDDD43Advanced Data Models and Databases6*A1N2ETDDE18Programming C++6*G2F4ETDE109Strategic Application of IT: E-business and Knowledge Management6A1X4ETDE113Enterprise Resource Planning Systems: Process and Implementation6A1X2ETEIE72Corporate Strategies6A1X4ETEIO07Project Based Organization and Management6A1X4ETEIO90Innovation Management6A1X2ETETS23Purchasing6A1N2E	TDDD23	Design and Programming of Computer Games	6	A1N	2	E
TDDE18 Programming C++ Strategic Application of IT: E-business and Knowledge Management Enterprise Resource Planning Systems: Process and Implementation Enterprise Strategies Felevation of IT: E-business and Alix 4 E TDEI13 Enterprise Resource Planning Systems: Alix 2 E TEIE72 Corporate Strategies Felevation of IT: E-business and Alix 4 E TEIO07 Project Based Organization and Management 6 Alix 4 E TEIO90 Innovation Management 6 Alix 2 E TETS23 Purchasing 6 Alix 2 E	TDDD38	Advanced Programming in C++	6*	A1N	2	E
TDEI09 Strategic Application of IT: E-business and Knowledge Management Enterprise Resource Planning Systems: Process and Implementation TEIE72 Corporate Strategies FEIO07 Project Based Organization and Management Enterprise Resource Planning Systems: 6 A1X 4 E TEIO07 Project Based Organization and Management 6 A1X 4 E TEIO90 Innovation Management 6 A1X 2 E TETS23 Purchasing 6 A1N 2 E	TDDD43	Advanced Data Models and Databases	6*	A1N	2	E
TDEI09 Knowledge Management Enterprise Resource Planning Systems: Process and Implementation FEIE72 Corporate Strategies FEIO07 Project Based Organization and Management FEIO90 Innovation Management FEIO90 Innovation Management FEIO90 Purchasing FEIO90 Alx 2 FEIO90 Innovation Management FEIO90 In	TDDE18	Programming C++	6*	G2F	4	E
TEIE72 Corporate Strategies 6 A1X 4 E TEIO07 Project Based Organization and Management 6 A1X 4 E TEIO90 Innovation Management 6 A1X 2 E TETS23 Purchasing 6 A1N 2 E	TDEI09		6	A1X	4	E
TEIO07 Project Based Organization and Management 6 A1X 4 E TEIO90 Innovation Management 6 A1X 2 E TETS23 Purchasing 6 A1N 2 E	TDEI13		6	A1X	2	E
TEIO90Innovation Management6A1X2ETETS23Purchasing6A1N2E	TEIE72	Corporate Strategies	6	A1X	4	Е
TETS23 Purchasing 6 A1N 2 E	TEIO07	Project Based Organization and Management	6	A1X	4	E
	TEIO90	Innovation Management	6	A1X	2	E
TETS37 Basics in Logistics Management 6 G2X 4 E	TETS23	Purchasing	6	A1N	2	E
	TETS37	Basics in Logistics Management	6	G2X	4	E



Course code	Course name	Credits	Level	Timetable module	ECV
TKMJ31	Biofuels for Transportation	6	A1X	1	Е
TKMJ49	Environmentally Driven Business Development	6*	A1X	3	E
TMES09	Industrial Energy Systems	6	A1X	3	E
TMES27	Modelling of Energy Systems	6	A1X	3	E
TMKM16	Materials Selection and Optimization	6	A1X	4	Е
ТМКМ90	Engineering Materials - Deformation and Fracture	6	A1X	4	E
TMKT80	Wood - Material	6	G2X	2	Е
TMPS35	Emerging Factory Technologies	6	A1X	3	Е
TMQU03	Quality Management and Engineering	6	G2X	2	E
TPPE16	Manufacturing Strategies	6	A1X	2	Е
TPPE17	Corporate Finance	6	G2X	4	E
TSBB06	Multidimensional Signal Analysis	6*	A1X	2	Е
TSBB08	Digital Image Processing	6	A1X	4	Е
TSDT14	Signal Theory	6	A1X	1	Е
TSKS01	Digital Communication	6*	A1X	4	E
TSKS15	Detection and Estimation of Signals	6	A1X	2	Е
TSRT62	Modelling and Simulation	6	A1X	3	E
TSTE86	Digital Integrated Circuits	6	A1X	2	Е
Period 2					
THSP18	Spanish for Engineers III	6*	G2X	-	С
NBID31	Modelling of Biological Systems	6	A1X	3/4	Е
TAOP04	Mathematical Optimization	6	A1N	4	Е
TATA34	Real Analysis, Honours Course	6*	G2F	4	Е
TATA45	Complex Analysis	6	G2F	1	E
TDDC88	Software Engineering	12*	A1N	1	Е
TDDD07	Real Time Systems	6	A1N	4	Е
TDDD38	Advanced Programming in C++	6*	A1N	-	Е
TDDD43	Advanced Data Models and Databases	6*	A1N	2	Е
TDDD55	Compilers and Interpreters	4	G2F	1	E
TDDD71	Data Structures and Algorithms	2	G2X	1	E
TDDE18	Programming C++	6*	G2F	3	E



Course code	Course name	Credits	Level	Timetable module	ECV
TDEI19	Management Control	6	A1X	2	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
TKMJ35	Industrial Ecology	6	G2X	3	E
TKMJ49	Environmentally Driven Business Development	6*	A1X	3	Е
TMHL63	Introduction to Computational Mechanics	6	G2X	3	Е
TMKT71	Affective Engineering	6	A1X	2	Е
TMKT81	Wood - Realisation	6	G2X	1	Е
TMMV18	Fluid Mechanics	6	A1X	2	Е
TMMV54	Computational Heat Transfer	6	A1X	1	E
TMPS18	Engineering Design and Product Development	6	A1X	3	E
TMPS22	Assembly Technology	6	A1X	3	E
TMQU12	Lean Production	6	A1X	2	Е
TPPE21	Production Logistics	6	A1X	4	Е
TPPE29	Financial Markets and Instruments	6	A1X	2	Е
TSBB06	Multidimensional Signal Analysis	6*	A1X	3	Е
TSBB09	Image Sensors	6	A1X	4	E
TSEA81	Computer Engineering and Real-time Systems	6	A1X	4	E
TSIT02	Computer Security	6	G2F	2	E
TSKS01	Digital Communication	6*	A1X	4	E
TSKS11	Networks: Models, Algorithms and Applications	6	G2X	3	E
TSRT78	Digital Signal Processing	6	A1X	2	Е



Specialisation: Master Profile Automatic Control

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

Specialisation: Master Profile Computer Science and Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDDC88	Software Engineering	12*	A1N	1	С
Period 2					
TDDC88	Software Engineering	12*	A1N	1	С

Specialisation: Master Profile Economic Information Systems

Course code	Course name	Credits	Level	Timetable module	ECV		
Period 1							
TDEI09	Strategic Application of IT: E-business and Knowledge Management	6	A1X	4	С		
TDEI13	Enterprise Resource Planning Systems: Process and Implementation	6	A1X	2	E		
Period 2	Period 2						
TDEI19	Management Control	6	A1X	2	С		

Specialisation: Master Profile Energy Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TMES09	Industrial Energy Systems	6	A1X	3	E
TMES27	Modelling of Energy Systems	6	A1X	3	E
Period 2					
TMMV18	Fluid Mechanics	6	A1X	2	E
TMMV54	Computational Heat Transfer	6	A1X	1	E



Specialisation: Master Profile Finance

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

Specialisation: Master Profile Industrial Marketing

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TEIE72	Corporate Strategies	6	A1X	4	E
Period 2					
TEIE42	Industrial Sales Management	6	A1X	4	C/E
TEIM10	Industrial Service Development	6	A1X	2	C/E

Specialisation: Master Profile Logistics Management

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TETS37	Basics in Logistics Management	6	G2X	4	С
TETS23	Purchasing	6	A1N	2	E
Period 2					
TETS27	Supply Chain Logistics	6	A1X	2	C/E

Specialisation: Master Profile Manufacturing

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TMPS35	Emerging Factory Technologies	6	A1X	3	E
Period 2					
TMPS22	Assembly Technology	6	A1X	3	С



Specialisation: Master Profile Manufacturing Management

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TPPE16	Manufacturing Strategies	6	A1X	2	С
Period 2					
TPPE21	Production Logistics	6	A1X	4	E

Specialisation: Master Profile Product Development

Course code	Course name	Credits	Level	Timetable module	ECV
Period 2					
TMPS18	Engineering Design and Product Development	6	A1X	3	Е

Specialisation: Master Profile Project, Innovation and Entrepreneurship

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

Specialisation: Master Profile Quality Technology and Management

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



Specialisation: Master Profile Signal and Image Processing

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TSBB08	Digital Image Processing	6	A1X	4	С
TSDT14	Signal Theory	6	A1X	1	С
TSBB06	Multidimensional Signal Analysis	6*	A1X	2	E
Period 2					
TSBB06	Multidimensional Signal Analysis	6*	A1X	3	E
TSBB09	Image Sensors	6	A1X	4	Е
TSRT78	Digital Signal Processing	6	A1X	2	E

Specialisation: Master Profile Strategic Management and Control

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TEIE72	Corporate Strategies	6	A1X	4	С
TEIO90	Innovation Management	6	A1X	2	E
TKMJ49	Environmentally Driven Business Development	6*	A1X	3	E
TPPE16	Manufacturing Strategies	6	A1X	2	E
Period 2					
TDEI19	Management Control	6	A1X	2	С
TEIE42	Industrial Sales Management	6	A1X	4	E
TKMJ49	Environmentally Driven Business Development	6*	A1X	3	E

Specialisation: Master Profile Telecommunication

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TSDT14	Signal Theory	6	A1X	1	С
TSKS01	Digital Communication	6*	A1X	4	С
TSKS15	Detection and Estimation of Signals	6	A1X	2	E
Period 2					
TSKS01	Digital Communication	6*	A1X	4	С
TSIT02	Computer Security	6	G2F	2	E
TSKS11	Networks: Models, Algorithms and Applications	6	G2X	3	E



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

Specialisation: Specialization Biotechnical Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TKMJ31	Biofuels for Transportation	6	A1X	1	Е
Period 2					
NBID31	Modelling of Biological Systems	6	A1X	3/4	С
TKMJ35	Industrial Ecology	6	G2X	3	E

Specialisation: Specialization Computer Science and Engineering



Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDDC88	Software Engineering	12*	A1N	1	С
TDDC17	Artificial Intelligence	6	G2F	3	Е
TDDD23	Design and Programming of Computer Games	6	A1N	2	E
TDDD38	Advanced Programming in C++	6*	A1N	2	E
TDDE18	Programming C++	6*	G2F	4	E
TSTE86	Digital Integrated Circuits	6	A1X	2	E
Period 2					
TDDC88	Software Engineering	12*	A1N	1	С
TDDD71	Data Structures and Algorithms	2	G2X	1	С
TDDD38	Advanced Programming in C++	6*	A1N	-	E
TDDD55	Compilers and Interpreters	4	G2F	1	E
TDDE18	Programming C++	6*	G2F	3	E
TSEA81	Computer Engineering and Real-time Systems	6	A1X	4	E
TSIT02	Computer Security	6	G2F	2	E
TSKS11	Networks: Models, Algorithms and Applications	6	G2X	3	E



Specialisation: Specialization Electrical Engineering

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Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TSBB06	Multidimensional Signal Analysis	6*	A1X	2	Е
TSBB08	Digital Image Processing	6	A1X	4	E
TSDT14	Signal Theory	6	A1X	1	E
TSKS01	Digital Communication	6*	A1X	4	E
TSKS15	Detection and Estimation of Signals	6	A1X	2	Е
TSRT62	Modelling and Simulation	6	A1X	3	E
TSTE86	Digital Integrated Circuits	6	A1X	2	E
Period 2					
TSBB06	Multidimensional Signal Analysis	6*	A1X	3	E
TSBB09	Image Sensors	6	A1X	4	Е
TSEA81	Computer Engineering and Real-time Systems	6	A1X	4	E
TSIT02	Computer Security	6	G2F	2	Е
TSKS01	Digital Communication	6*	A1X	4	E
TSKS11	Networks: Models, Algorithms and Applications	6	G2X	3	E
TSRT78	Digital Signal Processing	6	A1X	2	Е

Specialisation: Specialization Energy Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TMES09	Industrial Energy Systems	6	A1X	3	E
TMES27	Modelling of Energy Systems	6	A1X	3	E
Period 2					
TMMV18	Fluid Mechanics	6	A1X	2	E
TMMV54	Computational Heat Transfer	6	A1X	1	Е



Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TANA21	Scientific Computing	6	G1F	3	E
TMKM16	Materials Selection and Optimization	6	A1X	4	E
ТМКМ90	Engineering Materials - Deformation and Fracture	6	A1X	4	E
TMKT80	Wood - Material	6	G2X	2	E
TMPS35	Emerging Factory Technologies	6	A1X	3	E
Period 2					
TMKT71	Affective Engineering	6	A1X	2	E
TMKT81	Wood - Realisation	6	G2X	1	E
TMPS18	Engineering Design and Product Development	6	A1X	3	E
TMPS22	Assembly Technology	6	A1X	3	E

Semester 8 (Spring 2018)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TEIE06	Corporate Planning	6*	A1X	-	С
NBIC50	Ecotoxicology and Environmental Monitoring	6	G2X	1	E
TAMS29	Stochastic Processes Applied to Financial Models	6	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	Е
TDDD20	Design and Analysis of Algorithms	6	A1N	3	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	4	E
TDDD57	Physical Interaction and Game Programming	6	A1N	1	Е



Course code	Course name	Credits	Level	Timetable module	ECV
TDDD75	Effect-Driven Development and Human- Centered Design of Interactive Systems	6	G2X	3	E
TDDD97	Web Programming	6	G2F	3	Е
TDEI71	Digitisation, Business Ecologies and Business Models	6	A1N	4	E
TDTS04	Computer Networks and Distributed Systems	8	G2F	2	Е
TEIE88	Computer Law	4	G1X	1	Е
TEIM09	International Business	6	A1X	2	E
TEIO13	Leadership and Organizational Change	6	A1X	4	E
TETS57	Logistics Analysis	6	A1X	2	E
TFYA45	Biotechnology Project	6*	A1X	-	E
TFYA62	Introduction to Biosensor Technology	6	G2X	4	E
TFYA85	Alternative Energy Sources and their Applications	6	G2X	4	E
TGTU01	Technology and Ethics	6	G1X	1	E
TGTU91	Oral and Written Communication	6	G1F	2	E
TKMJ10	Industrial Ecology	6	A1X	1	Е
TKMJ47	Environmental Systems Analysis	6*	A1N	2	E
TMES17	Building Energy Systems	6	A1N	3	Е
TMES43	Analysis and Modelling of Industrial Energy Systems	6	A1F	1	E
TMKA04	Wood - Innovation	6	A1X	1	E
TMKT48	Design Optimization	6	A1X	3	Е
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	Е
TPPE78	Quantitative Models and Analysis in Operations Management	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
					



Course code	Course name	Credits	Level	Timetable module	ECV
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
Period 2					
TEIE06	Corporate Planning	6*	A1X	-	С
TATA53	Linear Algebra, Honours Course	6*	G2F	-	Е
TDDC78	Programming of Parallel Computers - Methods and Tools	6	A1X	3	E
TDDD05	Component Based Software	6	A1X	1	Е
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	Е
TDDD38	Advanced Programming in C++	6*	A1N	-	Е
TDEI21	Strategic Organisational Application of IT - Workflow and Knowledge Management	6	A1X	4	E
TDEI35	Strategy and Management Control	6	A1X	2	E
TEAE13	Civil and Commercial Law	6	G1X	2	Е
TEIM07	Industrial Market Research	6	A1X	2	E
TEIO06	Innovative Entrepreneurship	6	A1X	2	E
TEIO41	Corporate Social Responsibility	6	A1X	3	E
TETS36	Sustainable Logistics Systems	6	A1X	4	E
TETS56	Logistics and Quality in Health Care	6	A1X	4	Е
TFYA45	Biotechnology Project	6*	A1X	-	E
TGTU76	Philosophy of Science	6	G1X	4	E
TKMJ47	Environmental Systems Analysis	6*	A1N	2	Е
TMES21	Industrial Energy Systems	6	A1F	3	Е
TMHL61	Damage Mechanics and Life Analysis	6	A1X	2	Е
TMKT57	Product Modelling	6	A1X	3	E
TMKT83	Small Scale Renewable Energy Conversion	6	A1X	4	Е
TMME11	Road Vehicle Dynamics	6	A1X	1	Е
TMPS27	Production Systems	6	A1X	3	E
TMQU04	Six Sigma Quality	6	A1X	2	E
TPPE33	Portfolio Management	6	A1X	2	Е



Course code	Course name	Credits	Level	Timetable module	ECV
TPPE74	Design and Development of Manufacturing Operations	6	A1X	4	E
TSBB15	Computer Vision	12*	A1X	3	Е
TSBK02	Image and Audio Coding	6	A1X	4	Е
TSBK07	Computer Graphics	6*	A1X	1	Е
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 At	ıtomatic (ontro	1	
Course	•			Timetable	
code	Course name	Credits	Level	module	ECV
Period 1					
TSRT07	Industrial Control Systems	6	A1X	2	E
TSRT09	Control Theory	6	A1X	3	Е
Period 2					
TSFS06	Diagnosis and Supervision	6	A1N	1	Е
TSRT14	Sensor Fusion	6	A1X	2	Е

Specialisation: Master Profile Computer Science and Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 2					
TDDD05	Component Based Software	6	A1X	1	С

Specialisation: Master Profile Economic Information Systems

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDEI71	Digitisation, Business Ecologies and Business Models	6	A1N	4	E
Period 2					
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
Period 1					
TMES17	Building Energy Systems	6	A1N	3	Е
TMES43	Analysis and Modelling of Industrial Energy Systems	6	A1F	1	E
Period 2					
TMES21	Industrial Energy Systems	6	A1F	3	Е
TMKT83	Small Scale Renewable Energy Conversion	6	A1X	4	E

Specialisation: Master Profile Finance

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TPPE32	Financial Risk Management	6	A1X	2	С
Period 2					
TPPE33	Portfolio Management	6	A1X	2	E

Specialisation: Master Profile Industrial Marketing

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

Specialisation: Master Profile Logistics Management

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



Specialisation: Master Profile Manufacturing

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TMPS42	Production System Automation	6	A1X	1	Е
Period 2					
TMPS27	Production Systems	6	A1X	3	С

Specialisation: Master Profile Manufacturing Management

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

Specialisation: Master Profile Product Development

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

Specialisation: Master Profile Project, Innovation and Entrepreneurship

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



Specialisation: Master Profile Quality Technology and Management

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TEIO13	Leadership and Organizational Change	6	A1X	4	E
TMQU31	Statistical Quality Control	6	A1X	2	E
Period 2					
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
TPPE74	Design and Development of Manufacturing Operations	6	A1X	4	E

Specialisation: Master Profile Signal and Image Processing

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TBMI26	Neural Networks and Learning Systems	6	A1N	2	E
TSBB15	Computer Vision	12*	A1X	1	E
TSBK07	Computer Graphics	6*	A1X	4	E
Period 2					
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
Period 1					
TEIM09	International Business	6	A1X	2	E
TEIO13	Leadership and Organizational Change	6	A1X	4	E
Period 2					
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



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

Specialisation: Master Profile Wood Technology

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

Specialisation: Specialization Biotechnical Engineering

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



Specialisation: Specialization Computer Science and Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDDB68	Concurrent Programming and Operating Systems	6	G2X	3	E
TDDD17	Information Security, Second Course	6*	A1X	4	E
TDDD20	Design and Analysis of Algorithms	6	A1N	3	E
TDDD38	Advanced Programming in C++	6*	A1N	2	E
TDDD41	Data Mining - Clustering and Association Analysis	6	A1N	3	Е
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
Period 2					
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
Period 1					
TBMI26	Neural Networks and Learning Systems	6	A1N	2	Е
TSBB15	Computer Vision	12*	A1X	1	Е
TSBK07	Computer Graphics	6*	A1X	4	Е
TSBK08	Data Compression	6	A1N	2	Е
TSKS13	Wireless Communications	6	A1F	4	Е
TSRT07	Industrial Control Systems	6	A1X	2	Е
TSRT09	Control Theory	6	A1X	3	Е
Period 2					
TSBB15	Computer Vision	12*	A1X	3	E
TSBK02	Image and Audio Coding	6	A1X	4	Е
TSBK07	Computer Graphics	6*	A1X	1	Е
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
Period 1					
TKMJ10	Industrial Ecology	6	A1X	1	E
TMES17	Building Energy Systems	6	A1N	3	E
TMES43	Analysis and Modelling of Industrial Energy Systems	6	A1F	1	E
Period 2					
TMES21	Industrial Energy Systems	6	A1F	3	E
TMKT83	Small Scale Renewable Energy Conversion	6	A1X	4	E



Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TMKA04	Wood - Innovation	6	A1X	1	E
TMKT48	Design Optimization	6	A1X	3	E
TMMS21	Mechatronics	6	G2X	1	E
TMPS42	Production System Automation	6	A1X	1	E
Period 2					
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 2018)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TAMS39	Multivariate Statistical Methods	6	A1N	4	E
TAMS46	Probability Theory, Second Course	6	A1N	3	E
TATM38	Mathematical Models in Biology	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
TDEI72	Strategy and Digitisation - Technology, Standards and Network Effects	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*	A1F	4	E
TETS38	Logistics Project	12*	A1X	4	E
TKMJ31	Biofuels for Transportation	6	A1N	1	E
TMME40	Vibration Analysis of Structures	6	A1X	3	E
TMMS11	Models of Mechanics	6*	A1X	3	E



TMMV01Aerodynamics6A1X2ETMMV12Gas Turbine Engines6A1X4ETMPE01Project Course Advanced - Energy Engineering and Product Development12*A1X-ETMPM05Project Course Advanced - Design Engineering and Product Development12*A1X-ETMPM08Project Course Advanced - Manufacturing Engineering12*A1X4ETMQU13Customer Focused Product and Service Development6A1X4ETMQU27Quality Management - Project Course12*A1X2ETPPE53Financial Valuation Methodology6A1X2ETPPE66Investment Valuation6*A1X4ETPPE73Operations Management - Project Course12*A1X4ETPPE99Simulation in Production and Logistics6A1X3ETSIN01Information Networks6A1X3ETSIS103Cryptology6A1X2ETSKS12Modern Channel Coding, Inference and Learning6A1X1EPeriod 2TAOP18Supply Chain Optimization6A1X1ETDDB44Compiler Construction6A1X1ETDDD50Multicore and GPU Programming6A1X4ETDDD50Multicore and GPU Programming6A1X4ETEAE12Change </th <th>Course code</th> <th>Course name</th> <th>Credits</th> <th>Level</th> <th>Timetable module</th> <th>ECV</th>	Course code	Course name	Credits	Level	Timetable module	ECV
TMPE01Project Course Advanced - Energy Engineering Project Course Advanced - Design Engineering and Product Development12*A1X-ETMPM08Project Course Advanced - Manufacturing Engineering12*A1F-ETMQU13Customer Focused Product and Service 	TMMV01	Aerodynamics	6	A1X	2	E
TMPM05Project Course Advanced - Design Engineering and Product Development12*A1X-ETMPM08Project Course Advanced - Manufacturing Engineering12*A1F-ETMQU13Customer Focused Product and Service Development6A1X4ETMQU27Quality Management - Project Course12*A1X2ETPPE53Financial Valuation Methodology6A1X2ETPPE66Investment Valuation6*A1X4ETPPE73Operations Management - Project Course12*A1X4ETPPE99Simulation in Production and Logistics6A1X3ETSIN01Information Networks6A1X3ETSIT03Cryptology6A1X2EPeriod 2TAOP18Supply Chain Optimization6A1F1ETDDB44Compiler Construction6A1X1ETDDC90Software Security6A1X4ETDDD56Multicore and GPU Programming6A1X4ETDDD56Multicore and GPU Programming6A1X2ETEAE12Strategic Analysis and Methods for Strategic Change12*A1F2ETEIM04Industrial Market and Technology Strategies12*A1F2ETEIM10Industrial Service Development6A1X4ETEIO89Innova	TMMV12	Gas Turbine Engines	6	A1X	4	E
IMPMIOS and Product Development12*A1XETMPM08Project Course Advanced - Manufacturing Engineering12*A1F-ETMQU13Customer Focused Product and Service Development6A1X4ETMQU27Quality Management - Project Course12*A1X2ETPPE53Financial Valuation Methodology6A1X2ETPPE66Investment Valuation6*A1X4ETPPE73Operations Management - Project Course12*A1X4ETPPE99Simulation in Production and Logistics6A1X3ETSIN01Information Networks6A1X3ETSKS12Modern Channel Coding, Inference and Learning6A1X1EPeriod 2TAOP18Supply Chain Optimization6A1X1ETDDC90Software Security6A1X1ETDDD30Advanced Software Engineering6A1X1ETDDD30Advanced Software Engineering6A1X4ETDDD56Multicore and GPU Programming6A1R2ETEAE12Strategic Analysis and Methods for Strategic Change12*A1F2ETEIM04Industrial Market and Technology Strategies12*A1Z2ETEIM10Industrial Service Development6A1X4ETEIO89Innovatio	TMPE01	Project Course Advanced - Energy Engineering	12*	A1X	-	E
IMPMOUS EngineeringEngineering12"AIF-ETMQU13Customer Focused Product and Service Development6A1X4ETMQU27Quality Management - Project Course12*A1X2ETPPE53Financial Valuation Methodology6A1X2ETPPE66Investment Valuation6*A1X4ETPPE73Operations Management - Project Course12*A1X4ETPPE99Simulation in Production and Logistics6A1X3ETSIN01Information Networks6A1X3ETSIT03Cryptology6A1X2ETSKS12Modern Channel Coding, Inference and Learning6A1X1EPeriod 2TAOP18Supply Chain Optimization6A1F1ETDDB44Compiler Construction6A1X1ETDDC90Software Security6A1N1ETDDD30Advanced Software Engineering6A1N1ETDDD56Multicore and GPU Programming6A1X4ETDDD89Scientific Method6A1F3ETEAE12Strategic Analysis and Methods for Strategic Change12*A1F2ETEIM04Industrial Market and Technology Strategies12*A1X2ETEIM05Innovation and Entrepreneurship - Project Course <t< td=""><td>ТМРМ05</td><td></td><td>12*</td><td>A1X</td><td>-</td><td>E</td></t<>	ТМРМ05		12*	A1X	-	E
TMQU13 Development Financial Valuation Methodology Gardin A1X 2 E TPPE53 Financial Valuation Methodology Gardin A1X 2 E TPPE66 Investment Valuation G* A1X 4 E TPPE73 Operations Management - Project Course 12* A1X 4 E TPPE79 Simulation in Production and Logistics Gardin A1X 3 E TSIN01 Information Networks Gardin A1X 3 E TSIT03 Cryptology Gardin A1X 2 E TSKS12 Modern Channel Coding, Inference and Learning Period 2 TAOP18 Supply Chain Optimization Gardin A1X 1 E TDDB44 Compiler Construction Gardin A1X 1 E TDDC90 Software Security Gardin A1X 1 E TDDD30 Advanced Software Engineering Gardin A1X 4 E TDDD56 Multicore and GPU Programming Gardin A1X 4 E TEAE12 Strategic Analysis and Methods for Strategic Change TEIM04 Industrial Market and Technology Strategies TEIM05 Innovation and Entrepreneurship - Project Course TEIS31 Logistics Strategies Gardin A1X 4 E E TETS31 Logistics Strategies Gardin A1X 4 E E TETS31 Logistics Strategies Gardin A1X 4 E E TETS31 Logistics Strategies Gardin A1X 4 E TETS31 Logistics Strategies Gardin A1X 4 E TETS31 Logistics Strategies	ТМРМ08		12*	A1F	-	E
TPPE53 Financial Valuation Methodology 6 A1X 2 E TPPE66 Investment Valuation 6* A1X 4 E TPPE73 Operations Management - Project Course 12* A1X 4 E TPPE99 Simulation in Production and Logistics 6 A1X 3 E TSIN01 Information Networks 6 A1X 3 E TSIN02 Cryptology 6 A1X 2 E TSKS12 Modern Channel Coding, Inference and Learning 6 A1N 1 E Period 2 TAOP18 Supply Chain Optimization 6 A1F 1 E TDDB44 Compiler Construction 6 A1X 1 E TDDD50 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 TEIM04 Industrial Service Development 6 A1X 2 E TEIM10 Innovation and Entrepreneurship - Project Course 12* A1F 4 E TETS31 Logistics Strategies 6 A1X 4 E	TMQU13		6	A1X	4	E
TPPE66 Investment Valuation 6* A1X 4 E TPPE73 Operations Management - Project Course 12* A1X 4 E TPPE99 Simulation in Production and Logistics 6 A1X 3 E TSIN01 Information Networks 6 A1X 3 E TSIT03 Cryptology 6 A1X 2 E TSKS12 Modern Channel Coding, Inference and Learning 6 A1N 1 E Period 2 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 TDDD36 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 TEIM04 Innovation and Entrepreneurship - Project Course 12* A1F 4 E TEIO89 Innovation and Entrepreneurship - Project Course 6 A1X 4 E	TMQU27	Quality Management - Project Course	12*	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 Period 2 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 TEIM04 Industrial Service Development 6 A1X 2 E TEIM09 Innovation and Entrepreneurship - Project Course 12* A1F 4 E TETS31 Logistics Strategies 6 A1X 4 E	TPPE53	Financial Valuation Methodology	6	A1X	2	Е
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 Period 2 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 Course 12* A1F 4 E TETS31 Logistics Strategies 6 A1X 4 E	TPPE66	Investment Valuation	6*	A1X	4	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 Period 2 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 TEIM05 Innovation and Entrepreneurship - Project Course 12* A1F 4 E TEIO89 Innovation and Entrepreneurship - Project Course 6 A1X 4 E	TPPE73	Operations Management - Project Course	12*	A1X	4	E
TSIT03 Cryptology 6 A1X 2 E TSKS12 Modern Channel Coding, Inference and Learning 6 A1N 1 E Period 2 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* A1F 4 E	TPPE99	Simulation in Production and Logistics	6	A1X	3	E
TSKS12 Modern Channel Coding, Inference and Learning 6 A1N 1 E Period 2 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* A1F 4 E TETS31 Logistics Strategies 6 A1X 4 E	TSIN01	Information Networks	6	A1X	3	E
Period 2 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* A1F 4 E TETS31 Logistics Strategies 6 A1X 4 E	TSIT03	Cryptology	6	A1X	2	E
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* A1F 4 E TETS31 Logistics Strategies 6 A1X 4 E	TSKS12		6	A1N	1	E
TDDB44Compiler Construction6A1X1ETDDC90Software Security6A1N1ETDDD30Advanced Software Engineering6A1X4ETDDD56Multicore and GPU Programming6A1N2ETDDD89Scientific Method6A1F3ETEAE12Strategic Analysis and Methods for Strategic Change12*A1F2ETEIM04Industrial Market and Technology Strategies12*A1X2ETEIM10Industrial Service Development6A1X2ETEIO89Innovation and Entrepreneurship - Project Course12*A1F4ETETS31Logistics Strategies6A1X4E	Period 2					
TDDC90Software Security6A1N1ETDDD30Advanced Software Engineering6A1X4ETDDD56Multicore and GPU Programming6A1N2ETDDD89Scientific Method6A1F3ETEAE12Strategic Analysis and Methods for Strategic Change12*A1F2ETEIM04Industrial Market and Technology Strategies12*A1X2ETEIM10Industrial Service Development6A1X2ETEIO89Innovation and Entrepreneurship - Project Course12*A1F4ETETS31Logistics Strategies6A1X4E	TAOP18	Supply Chain Optimization	6	A1F	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* A1F 4 E TETS31 Logistics Strategies 6 A1X 4 E	TDDB44	Compiler Construction	6	A1X	1	E
TDDD56Multicore and GPU Programming6A1N2ETDDD89Scientific Method6A1F3ETEAE12Strategic Analysis and Methods for Strategic Change12*A1F2ETEIM04Industrial Market and Technology Strategies12*A1X2ETEIM10Industrial Service Development6A1X2ETEIO89Innovation and Entrepreneurship - Project Course12*A1F4ETETS31Logistics Strategies6A1X4E	TDDC90	Software Security	6	A1N	1	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	TDDD30	Advanced Software Engineering	6	A1X	4	E
TEAE12Strategic Analysis and Methods for Strategic Change12*A1F2ETEIM04Industrial Market and Technology Strategies12*A1X2ETEIM10Industrial Service Development6A1X2ETEIO89Innovation and Entrepreneurship - Project Course12*A1F4ETETS31Logistics Strategies6A1X4E	TDDD56	Multicore and GPU Programming	6	A1N	2	Е
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* A1F 4 E TETS31 Logistics Strategies 6 A1X 4 E	TDDD89	Scientific Method	6	A1F	3	Е
TEIM10 Industrial Service Development 6 A1X 2 E TEIO89 Innovation and Entrepreneurship - Project Course 12* A1F 4 E TETS31 Logistics Strategies 6 A1X 4 E	TEAE12		12*	A1F	2	E
TEIO89Innovation and Entrepreneurship - Project Course12*A1F4ETETS31Logistics Strategies6A1X4E	TEIM04	Industrial Market and Technology Strategies	12*	A1X	2	E
TETS31 Logistics Strategies 6 A1X 4 E	TEIM10	Industrial Service Development	6	A1X	2	Е
	TEIO89	• • • • •	12*	A1F	4	E
TETS38 Logistics Project 12* A1X 2 E	TETS31	Logistics Strategies	6	A1X	4	E
	TETS38	Logistics Project	12*	A1X	2	E



Course code	Course name	Credits	Level	Timetable module	ECV
TFBI17	Advanced Project Course in Ecosystem Service Valuation	6	A1X	-	E
TKMJ32	Integrated Product Service Engineering	6	A1N	3	E
TMES51	International Energy Markets	6	A1N	1	E
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*	A1F	-	E
TMQU12	Lean Production	6	A1X	2	E
TMQU27	Quality Management - Project Course	12*	A1X	4	E
TPPE61	Financial Optimization	6	A1X	2	E
TPPE66	Investment Valuation	6*	A1X	4	E
TPPE73	Operations Management - Project Course	12*	A1X	4	E
TSRT08	Optimal Control	6	A1X	3	E

Specialisation: Master Profile Automatic Control

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

Specialisation: Master Profile Computer Science and Engineering

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



Specialisation: Master Profile Economic Information Systems

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
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
Period 1					
TKMJ31	Biofuels for Transportation	6	A1N	1	E
TMMV12	Gas Turbine Engines	6	A1X	4	Е
TMPE01	Project Course Advanced - Energy Engineering	12*	A1X	-	E
Period 2					
TMPE01	Project Course Advanced - Energy Engineering	12*	A1X	-	E

Specialisation: Master Profile Finance

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

Specialisation: Master Profile Industrial Marketing

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



Specialisation: Master Profile Logistics Management

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

Specialisation: Master Profile Manufacturing

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TMPM08	Project Course Advanced - Manufacturing Engineering	12*	A1F	-	С
Period 2					
TMPM08	Project Course Advanced - Manufacturing Engineering	12*	A1F	-	С

Specialisation: Master Profile Manufacturing Management

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

Specialisation: Master Profile Product Development

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TMPM05	Project Course Advanced - Design Engineering and Product Development	12*	A1X	-	С
Period 2					
ТМРМ05	Project Course Advanced - Design Engineering and Product Development	12*	A1X	-	С



Specialisation: Master Profile Project, Innovation and Entrepreneurship

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TEIO89	Innovation and Entrepreneurship - Project Course	12*	A1F	4	С
Period 2					
TEIO89	Innovation and Entrepreneurship - Project Course	12*	A1F	4	С

Specialisation: Master Profile Quality Technology and Management

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

Specialisation: Master Profile Strategic Management and Control

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TEAE12	Strategic Analysis and Methods for Strategic Change	12*	A1F	2	С
TDEI72	Strategy and Digitisation - Technology, Standards and Network Effects	6	A1X	4	E
Period 2					
TEAE12	Strategic Analysis and Methods for Strategic Change	12*	A1F	2	С
TEIM10	Industrial Service Development	6	A1X	2	E
TMQU12	Lean Production	6	A1X	2	Е



Specialisation: Master Profile Telecommunication

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

Specialisation: Specialization Biotechnical Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TATM38	Mathematical Models in Biology	6	A1N	3	Е
Period 2					
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
Period 1					
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
Period 1					
TSIN01	Information Networks	6	A1X	3	Е
TSIT03	Cryptology	6	A1X	2	Е
TSKS12	Modern Channel Coding, Inference and Learning	6	A1N	1	Е
Period 2					
TSRT08	Optimal Control	6	A1X	3	E

Specialisation: Specialization Energy Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TKMJ31	Biofuels for Transportation	6	A1N	1	E
TMMV12	Gas Turbine Engines	6	A1X	4	Е
TMPE01	Project Course Advanced - Energy Engineering	12*	A1X	-	E
Period 2					
TKMJ32	Integrated Product Service Engineering	6	A1N	3	E
TMES51	International Energy Markets	6	A1N	1	E
TMPE01	Project Course Advanced - Energy Engineering	12*	A1X	-	E



Specialisation: Specialization Mechanical Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
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*	A1F	-	E
Period 2					
TKMJ32	Integrated Product Service Engineering	6	A1N	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*	A1F	-	E

Semester 10 (Spring 2019)

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

