

## Industrial Engineering and Management, M Sc in Engineering

300 credits

Civilingenjör i industriell ekonomi

6CIII

Valid from: 2014 Spring semester

**Determined by** Board 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*	G2X	2	E
TDDD83	Computer Engineering - Bachelor Project	18*	G2X	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*	G2X	2	E
THFR05	Communicative French	6*	G1X	4	E
THSP05	Spanish	6*	G1X	4	E
THTY05	German	6*	G1X	4	E
TKMJ39	Resource Efficient Products and Production	6	G2X	1	E
TMKT14	CAD and Machine Elements	6	G2X	1	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	2	E
Period 2					
TDDD81	Database Technology	6*	G2X	4	E
TDDD83	Computer Engineering - Bachelor Project	18*	G2X	1/3	E
TFBI24	Biotechnology - Bachelor Project	18*	G2X	2/3/4	E
THFR05	Communicative French	6*	G1X	4	E
THSP05	Spanish	6*	G1X	4	E
THTY05	German	6*	G1X	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



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

#### Specialisation: Specialization Biotechnical Engineering

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

#### 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	С
Period 2					
TSEA56	Electronics Engineering - Bachelor Project	16*	G2X	-	С
TSKS10	Signals, Information and Communication	4	G2X	3	С

#### 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	С
Period 2					
TMMV16	Energy Engineering - Bachelor Project	18*	G2X	3	С



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	С
Period 2					
TMPS32	Mechanical Engineering - Bachelor Project	18*	G2X	3	С

#### Specialisation: Specialization Mechanical Engineering

#### Semester 7 (Autumn 2017)

Period 1TAMS32Stochastic Processes6A1X1ETAMS46Probability Theory, Second Course6A1X3ETANA21Scientific Computing6G1X3ETAOP34Large Scale Optimization6A1X3ETATA34Real Analysis, Honours Course6*G2X4ETATA44Vector Analysis4G1X1ETDDC17Artificial Intelligence6G2X3ETDDC23Design and Programming of Computer Games6A1X2ETDDD38Advanced Programming in C++6*A1X2ETDDC18Programming C++6*G2X4ETDD18Programming C++6*G2X4ETDE109Strategic Application of IT: E-business and Knowledge ManagementA1X2ETDE113Enterprise Resource Planning Systems: Process and Implementation6A1X4ETEIC72Corporate Strategies6A1X4ETEIO07Project Based Organization and Management6A1X2ETEIO00Innovation Management6A1X2ETEIC90Innovation Management6A1X2ETEIT523Purchasing6A1X2ETEIT537Basics in Logistics Management6G2X4E	Course code	Course name	Credits	Level	Timetable module	ECV
TAMS46Probability Theory, Second Course6A1X3ETAMS46Probability Theory, Second Course6A1X3ETANA21Scientific Computing6G1X3ETAOP34Large Scale Optimization6A1X3ETATA34Real Analysis, Honours Course6*G2X4ETATA44Vector Analysis4G1X1ETDDC17Artificial Intelligence6G2X3ETDDC23Design and Programming of Computer Games6A1X2ETDDD38Advanced Programming in C++6*A1X2ETDDD43Advanced Data Models and Databases6*A1X2ETDDE18Programming C++6*G2X4ETDE13Enterprise Resource Planning Systems: Process and Implementation6A1X4ETEIO7Project Based Organization and Management6A1X4ETEIO90Innovation Management6A1X4ETEIO90Innovation Management6A1X2ETEIO90Innovation Management6A1X2E	Period 1					
TANA21Scientific Computing6G1X3ETAOP34Large Scale Optimization6A1X3ETATA34Real Analysis, Honours Course6*G2X4ETATA44Vector Analysis4G1X1ETDDC17Artificial Intelligence6G2X3ETDDC88Software Engineering12*A1X1ETDDC33Design and Programming of Computer Games6A1X2ETDDD38Advanced Programming in C++6*A1X2ETDDD43Advanced Data Models and Databases6*A1X2ETDDE18Programming C++6*G2X4ETDE109Strategic Application of IT: E-business and Knowledge Management6A1X4ETDE113Enterprise Resource Planning Systems: Process and Implementation6A1X4ETEI007Project Based Organization and Management6A1X4ETEI090Innovation Management6A1X2ETEI090Innovation Management6A1X2ETEIO90Innovation Management6A1X2ETEIO90Innovation Management6A1X2ETEIO90Innovation Management6A1X2ETEIS23Purchasing6A1N2E	TAMS32	Stochastic Processes	6	A1X	1	E
TAOP34Large Scale Optimization6A1X3ETATA34Real Analysis, Honours Course6*G2X4ETATA44Vector Analysis4G1X1ETDDC17Artificial Intelligence6G2X3ETDDC88Software Engineering12*A1X1ETDDD23Design and Programming of Computer Games6A1X2ETDDD38Advanced Programming in C++6*A1X2ETDDD43Advanced Data Models and Databases6*A1X2ETDDE18Programming C++6*G2X4ETDE109Strategic Application of IT: E-business and Knowledge Management6A1X4ETEIE72Corporate Strategies6A1X4ETEI007Project Based Organization and Management6A1X4ETEI090Innovation Management6A1X2ETEI090Innovation Management6A1X2E	TAMS46	Probability Theory, Second Course	6	A1X	3	E
TATA34Real Analysis, Honours Course6*G2X4ETATA44Vector Analysis4G1X1ETDDC17Artificial Intelligence6G2X3ETDDC88Software Engineering12*A1X1ETDDD23Design and Programming of Computer Games6A1X2ETDDD38Advanced Programming in C++6*A1X2ETDDD43Advanced Data Models and Databases6*A1X2ETDDE18Programming C++6*G2X4ETDE109Strategic Application of IT: E-business and Knowledge Management6A1X4ETDE113Enterprise Resource Planning Systems: Process and Implementation6A1X4ETEIC07Project Based Organization and Management6A1X4ETEI090Innovation Management6A1X2ETEIO90Innovation Management6A1X2ETEIS23Purchasing6A1N2E	TANA21	Scientific Computing	6	G1X	3	E
TATA44Vector Analysis4G1X1ETDDC17Artificial Intelligence6G2X3ETDDC88Software Engineering12*A1X1ETDDD23Design and Programming of Computer Games6A1X2ETDDD38Advanced Programming in C++6*A1X2ETDDD43Advanced Data Models and Databases6*A1X2ETDDE18Programming C++6*G2X4ETDE109Strategic Application of IT: E-business and Knowledge Management6A1X4ETDE113Enterprise Resource Planning Systems: Process and Implementation6A1X4ETEIO07Project Based Organization and Management6A1X2ETEIO90Innovation Management6A1X2ETEIO90Innovation Management6A1X2ETEIO90Innovation Management6A1X2ETEIO90Innovation Management6A1X2ETEIS23Purchasing6A1N2E	TAOP34	Large Scale Optimization	6	A1X	3	E
TDDC17Artificial Intelligence6G2X3ETDDC88Software Engineering12*A1X1ETDDD23Design and Programming of Computer Games6A1X2ETDDD38Advanced Programming in C++6*A1X2ETDDD43Advanced Data Models and Databases6*A1X2ETDDE18Programming C++6*G2X4ETDE109Strategic Application of IT: E-business and Knowledge Management6A1X4ETDE113Enterprise Resource Planning Systems: Process and Implementation6A1X4ETEIC72Corporate Strategies6A1X4ETEI007Project Based Organization and Management6A1X2ETEI090Innovation Management6A1X2ETEIO90Innovation Management6A1X2ETEIS23Purchasing6A1N2E	TATA34	Real Analysis, Honours Course	6*	G2X	4	E
TDDC88Software Engineering12*A1X1ETDDC3Design and Programming of Computer Games6A1X2ETDDD38Advanced Programming in C++6*A1X2ETDDD43Advanced Data Models and Databases6*A1X2ETDDE18Programming C++6*G2X4ETDE109Strategic Application of IT: E-business and Knowledge Management6A1X4ETDE113Enterprise Resource Planning Systems: Process and Implementation6A1X4ETEIC07Project Based Organization and Management6A1X4ETEIO09Innovation Management6A1X2ETEIO07Project Based Organization and Management6A1X2ETEIS23Purchasing6A1X2E	TATA44	Vector Analysis	4	G1X	1	E
TDDD23Design and Programming of Computer Games6A1X2ETDDD38Advanced Programming in C++6*A1X2ETDDD43Advanced Data Models and Databases6*A1X2ETDDE18Programming C++6*G2X4ETDE109Strategic Application of IT: E-business and Knowledge Management6A1X4ETDE113Enterprise Resource Planning Systems: Process and Implementation6A1X4ETEIE72Corporate Strategies6A1X4ETEI007Project Based Organization and Management6A1X2ETEI090Innovation Management6A1X2ETEIS23Purchasing6A1N2E	TDDC17	Artificial Intelligence	6	G2X	3	E
TDDD38Advanced Programming in C++6*A1X2ETDDD43Advanced Data Models and Databases6*A1X2ETDDE18Programming C++6*G2X4ETDE109Strategic Application of IT: E-business and Knowledge Management6A1X4ETDE113Enterprise Resource Planning Systems: Process and Implementation6A1X2ETEIE72Corporate Strategies6A1X4ETEI007Project Based Organization and Management6A1X4ETEI090Innovation Management6A1X2ETETS23Purchasing6A1N2E	TDDC88	Software Engineering	12*	A1X	1	E
TDDD43Advanced Data Models and Databases6*A1X2ETDDE18Programming C++6*G2X4ETDE109Strategic Application of IT: E-business and Knowledge Management6A1X4ETDE113Enterprise Resource Planning Systems: Process and Implementation6A1X2ETEIE72Corporate Strategies6A1X4ETEI007Project Based Organization and Management6A1X4ETEI090Innovation Management6A1X2ETEIS23Purchasing6A1N2E	TDDD23	Design and Programming of Computer Games	6	A1X	2	E
TDDE18Programming C++6*G2X4ETDE109Strategic Application of IT: E-business and Knowledge Management6A1X4ETDE113Enterprise Resource Planning Systems: Process and Implementation6A1X2ETEIE72Corporate Strategies6A1X4ETEIO07Project Based Organization and Management6A1X4ETEIO90Innovation Management6A1X2ETETS23Purchasing6A1N2E	TDDD38	Advanced Programming in C++	6*	A1X	2	E
TDEIDEProgramming of MainDDEIX1DTDEI09Strategic Application of IT: E-business and Knowledge Management6A1X4ETDEI13Enterprise Resource Planning Systems: Process and Implementation6A1X2ETEIE72Corporate Strategies6A1X4ETEI007Project Based Organization and Management6A1X4ETEI090Innovation Management6A1X2ETETS23Purchasing6A1N2E	TDDD43	Advanced Data Models and Databases	6*	A1X	2	E
TDEI09Knowledge Management6AIX4ETDEI13Enterprise Resource Planning Systems: Process and Implementation6A1X2ETEIE72Corporate Strategies6A1X4ETEIO07Project Based Organization and Management6A1X4ETEIO90Innovation Management6A1X2ETETS23Purchasing6A1N2E	TDDE18	Programming C++	6*	G2X	4	E
IDEI13Process and Implementation6AIX2ETEIE72Corporate Strategies6AIX4ETEIO07Project Based Organization and Management6AIX4ETEIO90Innovation Management6AIX2ETETS23Purchasing6AIN2E	TDEI09		6	A1X	4	E
TEIO07Project Based Organization and Management6A1X4ETEIO90Innovation Management6A1X2ETETS23Purchasing6A1N2E	TDEI13		6	A1X	2	E
TEIO90Innovation Management6A1X2ETETS23Purchasing6A1N2E	TEIE72	Corporate Strategies	6	A1X	4	E
TETS23Purchasing6A1N2E	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
TKMJ31Biofuels for Transportation6A1X1E	TKMJ31	Biofuels for Transportation	6	A1X	1	E



Course code	Course name	Credits	Level	Timetable module	ECV
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	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
TMQU03	Quality Management and Engineering	6	G2X	2	E
TPPE16	Manufacturing Strategies	6	A1X	2	E
TPPE17	Corporate Finance	6	G2X	4	E
TSBB06	Multidimensional Signal Analysis	6*	A1X	2	E
TSBB08	Digital Image Processing	6	A1X	4	E
TSDT14	Signal Theory	6	A1X	1	E
TSKS01	Digital Communication	6*	A1X	4	E
TSKS15	Detection and Estimation of Signals	6	A1X	2	E
TSRT62	Modelling and Simulation	6	A1X	3	E
TSTE86	Digital Integrated Circuits	6	A1X	2	E
Period 2					
NBID31	Modelling of Biological Systems	6	A1X	3/4	E
TAOP04	Mathematical Optimization	6	A1X	4	E
TATA34	Real Analysis, Honours Course	6*	G2X	4	E
TATA45	Complex Analysis	6	G2X	1	E
TDDC88	Software Engineering	12*	A1X	1	E
TDDD07	Real Time Systems	6	A1X	4	E
TDDD38	Advanced Programming in C++	6*	A1X	-	E
TDDD43	Advanced Data Models and Databases	6*	A1X	2	E
TDDD55	Compilers and Interpreters	4	G2X	1	E
TDDD71	Data Structures and Algorithms	2	G2X	1	E
TDDE18	Programming C++	6*	G2X	3	E
TDEI19	Management Control	6	A1X	2	E
TEIE42	Industrial Sales Management	6	A1X	4	E



Course code	Course name	Credits	Level	Timetable module	ECV
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	E
TMHL63	Introduction to Computational Mechanics	6	G2X	3	E
TMKT71	Affective Engineering	6	A1X	2	E
TMKT81	Wood - Realisation	6	G2X	1	E
TMMV18	Fluid Mechanics	6	A1X	2	E
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	E
TPPE21	Production Logistics	6	A1X	4	E
TPPE29	Financial Markets and Instruments	6	A1X	2	E
TSBB06	Multidimensional Signal Analysis	6*	A1X	3	E
TSBB09	Image Sensors	6	A1X	4	E
TSEA81	Computer Engineering and Real-time Systems	6	A1X	4	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	E

#### Specialisation: Master Profile Automatic Control

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



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

#### Specialisation: Master Profile Computer Science and Engineering

#### 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					
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
TMES09           TMES27           Period 2           TMMV18	Modelling of Energy Systems Fluid Mechanics	6	A1X A1X	3	E

#### Specialisation: Master Profile Finance

burse name	Credits	Level	Timetable module	ECV
prporate Finance	6	G2X	4	E
nancial Markets and Instruments	6	A1X	2	С
	•	•	•	orporate Finance 6 G2X 4



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

#### Specialisation: Master Profile Industrial Marketing

#### 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
		6	A1X	2	C/E

#### Specialisation: Master Profile Manufacturing

Course name	Credits	Level	Timetable module	ECV
Emerging Factory Technologies	6	A1X	3	E
Assembly Technology	6	A1X	3	С
	Emerging Factory Technologies	Emerging Factory Technologies 6	Emerging Factory Technologies 6 A1X	Course name     Credits     Level     module       Emerging Factory Technologies     6     A1X     3

#### 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



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

#### Specialisation: Master Profile Product Development

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



Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TEIE72	Corporate Strategies	6	A1X	4	С
TEIO90	Innovation Management	6	A1X	2	E
TKMJ49	Environmentally Driven Business Development	6*	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 Strategic Management and Control

#### Specialisation: Master Profile Telecommunication

Course name	Credits	Level	Timetable module	ECV
Signal Theory	6	A1X	1	С
Digital Communication	6*	A1X	4	С
Detection and Estimation of Signals	6	A1X	2	E
Digital Communication	6*	A1X	4	С
Computer Security	6	G2F	2	E
Networks: Models, Algorithms and Applications	6	G2X	3	E
	Signal Theory Digital Communication Detection and Estimation of Signals Digital Communication Computer Security	Signal Theory       6         Digital Communication       6*         Detection and Estimation of Signals       6         Digital Communication       6*         Computer Security       6	Signal Theory6A1XDigital Communication6*A1XDetection and Estimation of Signals6A1XDigital Communication6*A1XComputer Security6G2F	Course nameCreditsLevelImoduleSignal Theory6A1X1Digital Communication6*A1X4Detection and Estimation of Signals6A1X2Digital Communication6*A1X4Digital Communication6*A1X2Digital Communication6*A1X4Computer Security6G2F2

#### Specialisation: Master Profile Wood Technology

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



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

#### Specialisation: Specialization Biotechnical Engineering

Specialisation: Specialization Computer Science and Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDDC88	Software Engineering	12*	A1X	1	С
TDDC17	Artificial Intelligence	6	G2X	3	E
TDDD23	Design and Programming of Computer Games	6	A1X	2	E
TDDD38	Advanced Programming in C++	6*	A1X	2	E
TDDE18	Programming C++	6*	G2X	4	E
TSTE86	Digital Integrated Circuits	6	A1X	2	Е
Period 2					
TDDC88	Software Engineering	12*	A1X	1	С
TDDD71	Data Structures and Algorithms	2	G2X	1	С
TDDD38	Advanced Programming in C++	6*	A1X	-	E
TDDD55	Compilers and Interpreters	4	G2X	1	Е
TDDE18	Programming C++	6*	G2X	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



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

#### Specialisation: Specialization Electrical Engineering

#### 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	E



Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TANA21	Scientific Computing	6	G1X	3	Е
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	Е
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

#### Specialisation: Specialization Mechanical Engineering

### 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	A1X	3	E
TATA53	Linear Algebra, Honours Course	6*	G2X	-	E
TBMI26	Neural Networks and Learning Systems	6	A1X	2	E
TDDB68	Concurrent Programming and Operating Systems	6	G2X	3	E
TDDD17	Information Security, Second Course	6*	A1X	4	E
TDDD20	Design and Analysis of Algorithms	6	A1X	3	E
TDDD38	Advanced Programming in C++	6*	A1X	2	E
TDDD41	Data Mining - Clustering and Association Analysis	6	A1X	3	E
TDDD51	Service Design and Innovation	6	A1X	4	E
TDDD57	Physical Interaction and Game Programming	6	A1X	1	E



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	G2X	3	E
TDEI71	Digitisation, Business Ecologies and Business Models	6	A1N	4	E
TDTS04	Computer Networks and Distributed Systems	8	G2X	2	E
TEIE88	Computer Law	4	G1X	1	E
TEIM09	International Business	6	A1X	2	E
TEIO13	Leadership and Organizational Change	6	A1X	4	Е
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	Е
TGTU91	Oral and Written Communication	6	G1X	2	E
TKMJ10	Industrial Ecology	6	A1X	1	E
TKMJ47	Environmental Systems Analysis	6*	A1N	2	E
TMES17	Building Energy Systems	6	A1N	3	E
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	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	Е
TPPE78	Quantitative Models and Analysis in Operations Management	6	A1X	1	E
TSBB15	Computer Vision	12*	A1X	1	E
ТЅВКО7	Computer Graphics	6*	A1X	4	E
TSBK08	Data Compression	6	A1X	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	Е
Period 2					
TEIE06	Corporate Planning	6*	A1X	-	С
TATA53	Linear Algebra, Honours Course	6*	G2X	-	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	G2X	2	E
TDDD17	Information Security, Second Course	6*	A1X	4	E
TDDD27	Advanced Web Programming	6	A1X	3	E
TDDD38	Advanced Programming in C++	6*	A1X	-	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	E
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	E
TFYA45	Biotechnology Project	6*	A1X	-	E
TGTU76	Philosophy of Science	6	G1X	4	E
TKMJ47	Environmental Systems Analysis	6*	A1N	2	E
TMES21	Industrial Energy Systems	6	A1F	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
TPPE33	Portfolio Management	6	A1X	2	E



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	E
TSBK07	Computer Graphics	6*	A1X	1	E
TSFS06	Diagnosis and Supervision	6	A1N	1	E
TSKS14	Multiple Antenna Communications	6	A1X	2	E
TSRT14	Sensor Fusion	6	A1X	2	E
TSTE06	Digital Filters	6	A1X	3	E

#### Specialisation: Master Profile Automatic Control

Course name	Credits	Level	Timetable module	ECV
Industrial Control Systems	6	A1X	2	E
Control Theory	6	A1X	3	E
Diagnosis and Supervision	6	A1N	1	E
Sensor Fusion	6	A1X	2	E
	Industrial Control Systems Control Theory Diagnosis and Supervision	Industrial Control Systems     6       Control Theory     6       Diagnosis and Supervision     6	Industrial Control Systems6A1XControl Theory6A1XDiagnosis and Supervision6A1N	Course nameCreditsLevelImmoduleIndustrial Control Systems6A1X2Control Theory6A1X3Diagnosis and Supervision6A1N1

#### 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



Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
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

#### Specialisation: Master Profile Energy Engineering

#### 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	E



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

#### Specialisation: Master Profile Manufacturing

#### 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 name	Credits	Level	Timetable module	ECV
Leadership and Organizational Change	6	A1X	4	E
Innovative Entrepreneurship	6	A1X	2	E
Corporate Social Responsibility	6	A1X	3	E
	Leadership and Organizational Change Innovative Entrepreneurship	Leadership and Organizational Change       6         Innovative Entrepreneurship       6	Leadership and Organizational Change     6     A1X       Innovative Entrepreneurship     6     A1X	Course name     Credits     Level     Immunity module       Leadership and Organizational Change     6     A1X     4       Innovative Entrepreneurship     6     A1X     2



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 Quality Technology and Management

#### Specialisation: Master Profile Signal and Image Processing

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TBMI26	Neural Networks and Learning Systems	6	A1X	2	E
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

ECV

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

#### Specialisation: Master Profile Telecommunication

# Specialisation: Master Profile Wood Technology Course name Credits Level module

Period 1					
TMKA04	Wood - Innovation	6	A1X	1	С
Period 2					
TMKT57	Product Modelling	6	A1X	3	E
TMPS27	Production Systems	6	A1X	3	E

#### 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	-	E
TKMJ47	Environmental Systems Analysis	6*	A1N	2	E



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	A1X	3	E
TDDD38	Advanced Programming in C++	6*	A1X	2	E
TDDD41	Data Mining - Clustering and Association Analysis	6	A1X	3	E
TDDD75	Effect-Driven Development and Human- Centered Design of Interactive Systems	6	G2X	3	E
TDTS04	Computer Networks and Distributed Systems	8	G2X	2	E
Period 2					
TDDD05	Component Based Software	6	A1X	1	E
TDDD14	Formal Languages and Automata Theory	6	G2X	2	E
TDDD17	Information Security, Second Course	6*	A1X	4	E
TDDD27	Advanced Web Programming	6	A1X	3	E
TDDD38	Advanced Programming in C++	6*	A1X	-	E

#### Specialisation: Specialization Computer Science and Engineering



Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TBMI26	Neural Networks and Learning Systems	6	A1X	2	E
TSBB15	Computer Vision	12*	A1X	1	E
TSBK07	Computer Graphics	6*	A1X	4	Е
TSBK08	Data Compression	6	A1X	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	Е
TSKS14	Multiple Antenna Communications	6	A1X	2	Е
TSRT14	Sensor Fusion	6	A1X	2	E
TSTE06	Digital Filters	6	A1X	3	E

#### Specialisation: Specialization Electrical Engineering

#### Specialisation: Specialization Energy Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TKMJ10	Industrial Ecology	6	A1X	1	E
TMES17	Building Energy Systems	6	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 name	Credits	Level	Timetable module	ECV
Wood - Innovation	6	A1X	1	E
Design Optimization	6	A1X	3	E
Mechatronics	6	G2X	1	E
Production System Automation	6	A1X	1	E
Damage Mechanics and Life Analysis	6	A1X	2	E
Product Modelling	6	A1X	3	E
Road Vehicle Dynamics	6	A1X	1	E
Production Systems	6	A1X	3	E
	Wood - Innovation         Design Optimization         Mechatronics         Production System Automation         Damage Mechanics and Life Analysis         Product Modelling         Road Vehicle Dynamics	Wood - Innovation       6         Design Optimization       6         Mechatronics       6         Production System Automation       6         Damage Mechanics and Life Analysis       6         Product Modelling       6         Road Vehicle Dynamics       6	Wood - Innovation6A1XDesign Optimization6A1XMechatronics6G2XProduction System Automation6A1XDamage Mechanics and Life Analysis6A1XProduct Modelling6A1XRoad Vehicle Dynamics6A1X	Course nameCreditsLevelImoduleWood - Innovation6A1X1Design Optimization6A1X3Mechatronics6G2X1Production System Automation6A1X1Damage Mechanics and Life Analysis6A1X2Product Modelling6A1X3Road Vehicle Dynamics6A1X1

#### Specialisation: Specialization Mechanical Engineering

#### Semester 9 (Autumn 2018)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TAMS39	Multivariate Statistical Methods	6	A1X	4	E
TAMS46	Probability Theory, Second Course	6	A1X	3	E
TATM38	Mathematical Models in Biology	6	A1X	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	A1X	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



Course code	Course name	Credits	Level	Timetable module	ECV
TMMV01	Aerodynamics	6	A1X	2	E
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
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	A1X	1	E
Period 2					
TAOP18	Supply Chain Optimization	6	A1X	1	E
TDDB44	Compiler Construction	6	A1X	1	E
TDDC90	Software Security	6	A1X	1	E
TDDD30	Advanced Software Engineering	6	A1X	4	E
TDDD56	Multicore and GPU Programming	6	A1X	2	E
TDDD89	Scientific Method	6	A1X	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
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*	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	<b>Operations Management - Project Course</b>	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 name	Credits	Level	Timetable module	ECV
Design Patterns	6	A1X	4	С
Software Testing	6	A1X	2	С
Scientific Method	6	A1X	3	С
	Design Patterns Software Testing	Design Patterns6Software Testing6	Design Patterns6A1XSoftware Testing6A1X	Course nameCreditsLevelmoduleDesign Patterns6A1X4Software Testing6A1X2



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 Economic Information Systems

#### 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	E
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	Е
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



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 Logistics Management

Specialisation. Muster 1 rofile Munufacturing						
Course code	Course name	Credits	Level	Timetable module	ECV	
Period 1						
TMPM08	Project Course Advanced - Manufacturing Engineering	12*	A1X	-	С	
Period 2						
TMPM08	Project Course Advanced - Manufacturing Engineering	12*	A1X	-	с	

#### Specialisation: Master Profile Manufacturing

#### Specialisation: Master Profile Manufacturing Management

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

#### Specialisation: Master Profile Product Development

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



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 Project, Innovation and Entrepreneurship

#### Specialisation: Master Profile Quality Technology and Management

- 1-						
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	E



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	A1X	1	E

#### Specialisation: Master Profile Telecommunication

#### 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	A1X	3	E
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	A1X	2	E
TSIT03	Cryptology	6	A1X	2	E



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	A1X	1	E
Period 2					
TSRT08	Optimal Control	6	A1X	3	E

#### Specialisation: Specialization Electrical Engineering

#### 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	E
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



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*	A1X	-	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*	A1X	-	E

#### Specialisation: Specialization Mechanical Engineering

#### 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

