

Information Technology, M Sc in Engineering

300 credits

Civilingenjör i informationsteknologi

6CITE

Valid from: 2016 Spring semester

Determined by

Board of Studies for Computer Science and Media Technology

Date determined 2016-01-19

Entry requirements

Degree in Swedish Civilingenjör 300 hp och Teknologie master 120 hp



Curriculum

Semester 2 (Spring 2017)

Course name	Credits	Level	Timetable module	ECV
Calculus in One Variable 1	6	G1X	4	С
Computer Networks and Internet Protocols	6	G1X	2	С
Man and Technology at the Workplace	4*	G1X	3	С
Introduction in Matlab	2	G1X	2	E
Introduction to University Studies	2*	G1X	-	V
Calculus in One Variable 2	6	G1X	2	С
Models in Physics	8	G1X	1	С
Man and Technology at the Workplace	4*	G1X	3	С
Introduction to University Studies	2*	G1X	-	V
	Calculus in One Variable 1 Computer Networks and Internet Protocols Man and Technology at the Workplace Introduction in Matlab Introduction to University Studies Calculus in One Variable 2 Models in Physics Man and Technology at the Workplace	Calculus in One Variable 1 6 Computer Networks and Internet Protocols 6 Man and Technology at the Workplace 4* Introduction in Matlab 2 Introduction to University Studies 2* Calculus in One Variable 2 6 Models in Physics 8 Man and Technology at the Workplace 4*	Calculus in One Variable 1 6 G1X Computer Networks and Internet Protocols 6 G1X Man and Technology at the Workplace 4* G1X Introduction in Matlab 2 G1X Introduction to University Studies 2* G1X Calculus in One Variable 2 6 G1X Models in Physics 8 G1X Man and Technology at the Workplace 4* G1X	Calculus in One Variable 1 6 G1X 4 Computer Networks and Internet Protocols 6 G1X 2 Man and Technology at the Workplace 4* G1X 3 Introduction in Matlab 2 G1X 2 Introduction to University Studies 2* G1X - Calculus in One Variable 2 6 G1X 2 Models in Physics 8 G1X 1 Man and Technology at the Workplace 4* G1X 3

Semester 3 (Autumn 2017)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TATA24	Linear Algebra	8*	G1X	4	С
TDDC91	Data Structures and Algorithms	6	G1X	3	С
TDDD35	System Usability Issues	6	G1X	2	С
TATA40	Perspectives on Mathematics	1*	G1X	-	V
Period 2					
TATA24	Linear Algebra	8*	G1X	4	С
TDDD13	Interaction Programming	6	G2X	1	С
TDDE17	Introduction to Language Technology	4	G2X	3	С
TATA40	Perspectives on Mathematics	1*	G1X	-	V



Semester 4 (Spring 2018)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TATA76	Multivariable Calculus	4	G1X	4	С
TFYA94	Principles of Physics in Information Technology	8*	G2X	3	С
TSEA48	Computer Hardware and Architecture	4	G1X	1	С
TSKS06	Linear Systems for Communication	10*	G2X	2	С
THEN18	English	6*	G1N	1	Е
TATA40	Perspectives on Mathematics	1*	G1X	-	V
TGTU63	Visits to Industry	1*	G1X	-	V
Period 2					
TAMS36	Probability, First Course	4	G1X	4	С
TFYA94	Principles of Physics in Information Technology	8*	G2X	1	С
TSKS06	Linear Systems for Communication	10*	G2X	2	С
THEN18	English	6*	G1N	3	Е
TPTE06	Industrial Placement	6	G1X	-	E
TATA40	Perspectives on Mathematics	1*	G1X	-	V
TGTU63	Visits to Industry	1*	G1X	-	V

Semester 5 (Autumn 2018)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TAOP86	Combinatorial Optimization with Environmental Applications	8	G2X	2	С
TDDD66	Mobile Networks	6	G2X	3	С
TGTU63	Visits to Industry	1*	G1X	-	V
Period 2					
TDDD46	Database Technology	8	G2X	1	С
TSRT91	Automatic Control	8	G2X	3	С
TGTU63	Visits to Industry	1*	G1X	-	V



Semester 6 (Spring 2019)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDDD82	Project Semester including Bachelor Thesis Project: Secure, Mobile Systems	30*	G2X	-	С
Period 2					
TDDD82	Project Semester including Bachelor Thesis Project: Secure, Mobile Systems	30*	G2X	-	С

Semester 7 (Autumn 2019)

Period 1 TANA21 Scientific Computing 6 G1X 3 C/E TAMS24 Statistics, First Course 4 G2X 4 E TAMS32 Stochastic Processes 6 A1X 1 E TATA55 Abstract Algebra 6* G2X 3 E TATA77 Fourier Analysis 6 G2X 1 E TBME04 Anatomy and Physiology 6 G2X 3 E TBMI19 Medical Information Systems 6* A1X 2 E TDDC17 Artificial Intelligence 6 G2X 3 E TDDC34 Technical, Economic and Societal Evaluation of IT-products 6 A1X 3 E TDDD034 Software Testing 6 A1X 2 E TDDD08 Logic Programming 6 A1X 2 E TDDD23 Design and Programming of Computer Games 6 A1X 2 E TDDD53 A	Course code	Course name	Credits	Level	Timetable module	ECV
TAMS24 Statistics, First Course 4 G2X 4 E TAMS32 Stochastic Processes 6 A1X 1 E TATA55 Abstract Algebra 6* G2X 3 E TATA77 Fourier Analysis 6 G2X 1 E TBME04 Anatomy and Physiology 6 G2X 3 E TBMI19 Medical Information Systems 6* A1X 2 E TDDC17 Artificial Intelligence 6 G2X 3 E TDDC34 Technical, Economic and Societal Evaluation of IT-products TDDD04 Software Testing 6 A1X 2 E TDDD08 Logic Programming 6 A1X 4 E TDDD23 Design and Programming of Computer Games 6 A1X 2 E TDDD38 Advanced Programming in C++ 6* A1X 2 E TDDD53 Advanced Interaction Design 6 A1X 1 E TDDE18 Programming C++ 6* G2X 2 E TDDE45 Software Design and Construction 6 A1X 4 E TDTS06 Computer Networks 6 G2X 1 E TDTS08 Advanced Computer Architecture 6 A1X 2 E TEAE01 Industrial Economics, Basic Course 6 G1X 2 E	Period 1					
TAMS32 Stochastic Processes 6 A1X 1 E TATA55 Abstract Algebra 6* G2X 3 E TATA77 Fourier Analysis 6 G2X 1 E TBME04 Anatomy and Physiology 6 G2X 3 E TBMI19 Medical Information Systems 6* A1X 2 E TDDC17 Artificial Intelligence 6 G2X 3 E TDDC34 Technical, Economic and Societal Evaluation of IT-products 6 A1X 2 E TDDD08 Logic Programming 6 A1X 4 E TDDD03 Design and Programming of Computer Games 6 A1X 2 E TDDD3 Advanced Programming 10 C++ 6* A1X 2 E TDDD5 Advanced Interaction Design 6 A1X 1 E TDDE18 Programming C++ 6* G2X 2 E TDDE45 Software Design and Construction 6 A1X 4 E TDTS06 Computer Networks 6 G2X 1 E TDTS08 Advanced Computer Architecture 6 A1X 2 E TEAE01 Industrial Economics, Basic Course 6 G1X 2 E	TANA21	Scientific Computing	6	G1X	3	C/E
TATA55 Abstract Algebra 6* G2X 3 E TATA77 Fourier Analysis 6 G2X 1 E TBME04 Anatomy and Physiology 6 G2X 3 E TBMI19 Medical Information Systems 6* A1X 2 E TDDC17 Artificial Intelligence 6 G2X 3 E TDDC34 Technical, Economic and Societal Evaluation of IT-products 6 A1X 2 E TDDD08 Software Testing 6 A1X 2 E TDDD09 Logic Programming 6 A1X 4 E TDDD23 Design and Programming of Computer Games 6 A1X 2 E TDDD38 Advanced Programming 6 A1X 2 E TDDD53 Advanced Interaction Design 6 A1X 1 E TDDE18 Programming C++ 6* G2X 2 E TDDE45 Software Design and Construction 6 A1X 4 E TDTS06 Computer Networks 6 G2X 1 E TDTS08 Advanced Computer Architecture 6 A1X 2 E TEAE01 Industrial Economics, Basic Course 6 G1X 2 E	TAMS24	Statistics, First Course	4	G2X	4	Е
TATA77 Fourier Analysis 6 G2X 1 E TBME04 Anatomy and Physiology 6 G2X 3 E TBMI19 Medical Information Systems 6* A1X 2 E TDDC17 Artificial Intelligence 6 G2X 3 E TDDC34 Technical, Economic and Societal Evaluation of IT-products TDDD04 Software Testing 6 A1X 2 E TDDD08 Logic Programming 6 A1X 4 E TDDD23 Design and Programming of Computer Games 6 A1X 2 E TDDD38 Advanced Programming in C++ 6* A1X 2 E TDDD53 Advanced Interaction Design 6 A1X 1 E TDDE18 Programming C++ 6* G2X 2 E TDDE45 Software Design and Construction 6 A1X 4 E TDTS06 Computer Networks 6 G2X 1 E TDTS08 Advanced Computer Architecture 6 A1X 2 E TEAE01 Industrial Economics, Basic Course 6 G1X 2 E	TAMS32	Stochastic Processes	6	A1X	1	Е
TBME04 Anatomy and Physiology 6 G2X 3 E TBMI19 Medical Information Systems 6* A1X 2 E TDDC17 Artificial Intelligence 6 G2X 3 E TDDC34 Technical, Economic and Societal Evaluation of IT-products 6 A1X 3 E TDDD04 Software Testing 6 A1X 2 E TDDD08 Logic Programming 6 A1X 4 E TDDD23 Design and Programming of Computer Games 6 A1X 2 E TDDD38 Advanced Programming in C++ 6* A1X 2 E TDDD53 Advanced Interaction Design 6 A1X 1 E TDDE18 Programming C++ 6* G2X 2 E TDDE45 Software Design and Construction 6 A1X 4 E TDTS06 Computer Networks 6 G2X 1 E TDTS08 Advanced Computer Architecture 6 A1X 2 E TEAE01 Industrial Economics, Basic Course 6 G1X 2 E	TATA55	Abstract Algebra	6*	G2X	3	Е
TBMI19 Medical Information Systems 6* A1X 2 E TDDC17 Artificial Intelligence 6 G2X 3 E TDDC34 Technical, Economic and Societal Evaluation of IT-products 6 A1X 3 E TDDD04 Software Testing 6 A1X 2 E TDDD08 Logic Programming 6 A1X 4 E TDDD23 Design and Programming of Computer Games 6 A1X 2 E TDDD38 Advanced Programming in C++ 6* A1X 2 E TDDD53 Advanced Interaction Design 6 A1X 1 E TDDE18 Programming C++ 6* G2X 2 E TDDE45 Software Design and Construction 6 A1X 4 E TDTS06 Computer Networks 6 G2X 1 E TDTS08 Advanced Computer Architecture 6 A1X 2 E TEAE01 Industrial Economics, Basic Course 6 G1X 2 E	TATA77	Fourier Analysis	6	G2X	1	Е
TDDC17 Artificial Intelligence 6 G2X 3 E TDDC34 Technical, Economic and Societal Evaluation of IT-products 6 A1X 3 E TDDD04 Software Testing 6 A1X 2 E TDDD08 Logic Programming 6 A1X 4 E TDDD23 Design and Programming of Computer Games 6 A1X 2 E TDDD38 Advanced Programming in C++ 6* A1X 2 E TDDD53 Advanced Interaction Design 6 A1X 1 E TDDE18 Programming C++ 6* G2X 2 E TDDE45 Software Design and Construction 6 A1X 4 E TDTS06 Computer Networks 6 G2X 1 E TDTS08 Advanced Computer Architecture 6 A1X 2 E TEAE01 Industrial Economics, Basic Course 6 G1X 2 E	TBME04	Anatomy and Physiology	6	G2X	3	E
TDDC34 Technical, Economic and Societal Evaluation of IT-products TDDD04 Software Testing 6 A1X 2 E TDDD08 Logic Programming 6 A1X 4 E TDDD23 Design and Programming of Computer Games 6 A1X 2 E TDDD38 Advanced Programming in C++ 6* A1X 2 E TDDD53 Advanced Interaction Design 6 A1X 1 E TDDE18 Programming C++ 6* G2X 2 E TDDE45 Software Design and Construction 6 A1X 4 E TDTS06 Computer Networks 6 G2X 1 E TDTS08 Advanced Computer Architecture 6 A1X 2 E	TBMI19	Medical Information Systems	6*	A1X	2	E
TDDD04 Software Testing 6 A1X 2 E TDDD08 Logic Programming 6 A1X 4 E TDDD23 Design and Programming of Computer Games 6 A1X 2 E TDDD38 Advanced Programming in C++ 6* A1X 2 E TDDD53 Advanced Interaction Design 6 A1X 1 E TDDE18 Programming C++ 6* G2X 2 E TDDE45 Software Design and Construction 6 A1X 4 E TDTS06 Computer Networks 6 G2X 1 E TDTS08 Advanced Computer Architecture 6 A1X 2 E	TDDC17	Artificial Intelligence	6	G2X	3	E
TDDD08 Logic Programming 6 A1X 4 E TDDD23 Design and Programming of Computer Games 6 A1X 2 E TDDD38 Advanced Programming in C++ 6* A1X 2 E TDDD53 Advanced Interaction Design 6 A1X 1 E TDDE18 Programming C++ 6* G2X 2 E TDDE45 Software Design and Construction 6 A1X 4 E TDTS06 Computer Networks 6 G2X 1 E TDTS08 Advanced Computer Architecture 6 A1X 2 E TEAE01 Industrial Economics, Basic Course 6 G1X 2 E	TDDC34		6	A1X	3	E
TDDD23 Design and Programming of Computer Games 6 A1X 2 E TDDD38 Advanced Programming in C++ 6* A1X 2 E TDDD53 Advanced Interaction Design 6 A1X 1 E TDDE18 Programming C++ 6* G2X 2 E TDDE45 Software Design and Construction 6 A1X 4 E TDTS06 Computer Networks 6 G2X 1 E TDTS08 Advanced Computer Architecture 6 A1X 2 E TEAE01 Industrial Economics, Basic Course 6 G1X 2 E	TDDD04	Software Testing	6	A1X	2	E
TDDD38Advanced Programming in C++6*A1X2ETDDD53Advanced Interaction Design6A1X1ETDDE18Programming C++6*G2X2ETDDE45Software Design and Construction6A1X4ETDTS06Computer Networks6G2X1ETDTS08Advanced Computer Architecture6A1X2ETEAE01Industrial Economics, Basic Course6G1X2E	TDDD08	Logic Programming	6	A1X	4	E
TDDD53 Advanced Interaction Design 6 A1X 1 E TDDE18 Programming C++ 6* G2X 2 E TDDE45 Software Design and Construction 6 A1X 4 E TDTS06 Computer Networks 6 G2X 1 E TDTS08 Advanced Computer Architecture 6 A1X 2 E TEAE01 Industrial Economics, Basic Course 6 G1X 2 E	TDDD23	Design and Programming of Computer Games	6	A1X	2	E
TDDE18Programming C++6*G2X2ETDDE45Software Design and Construction6A1X4ETDTS06Computer Networks6G2X1ETDTS08Advanced Computer Architecture6A1X2ETEAE01Industrial Economics, Basic Course6G1X2E	TDDD38	Advanced Programming in C++	6*	A1X	2	E
TDDE45 Software Design and Construction 6 A1X 4 E TDTS06 Computer Networks 6 G2X 1 E TDTS08 Advanced Computer Architecture 6 A1X 2 E TEAE01 Industrial Economics, Basic Course 6 G1X 2 E	TDDD53	Advanced Interaction Design	6	A1X	1	E
TDTS06 Computer Networks 6 G2X 1 E TDTS08 Advanced Computer Architecture 6 A1X 2 E TEAE01 Industrial Economics, Basic Course 6 G1X 2 E	TDDE18	Programming C++	6*	G2X	2	E
TDTS08 Advanced Computer Architecture 6 A1X 2 E TEAE01 Industrial Economics, Basic Course 6 G1X 2 E	TDDE45	Software Design and Construction	6	A1X	4	E
TEAE01 Industrial Economics, Basic Course 6 G1X 2 E	TDTS06	Computer Networks	6	G2X	1	E
	TDTS08	Advanced Computer Architecture	6	A1X	2	E
TEIO32 Project Management and Organization 6* G2X 3 E	TEAE01	Industrial Economics, Basic Course	6	G1X	2	E
	TEIO32	Project Management and Organization	6*	G2X	3	Е



Course code	Course name	Credits	Level	Timetable module	ECV
TGTU91	Oral and Written Communication	6	G1X	2	E
THFR05	Communicative French	6*	G1X	4	Е
THSP05	Spanish	6*	G1X	4	E
THTY05	German	6*	G1X	4	E
TSBB06	Multidimensional Signal Analysis	6*	A1X	2	Е
TSBB08	Digital Image Processing	6	A1X	4	E
TSDT14	Signal Theory	6	A1X	1	E
TSEA29	Microcomputer, Project Laboratory	8*	G2X	3	E
TSFS12	Autonomous Vehicles - Planning, Control, and Learning Systems	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
TSTE12	Design of Digital Systems	6	A1X	3	E
TSTE86	Digital Integrated Circuits	6	A1X	2	E
Period 2					
TANA09	Numerical Algorithms in Computer Science	4	G2X	1	C/E
TAMS22	Probability Theory and Bayesian Networks	6	A1X	1	E
TAOP04	Mathematical Optimization	6	A1X	4	E
TATA55	Abstract Algebra	6*	G2X	3	E
TBMI02	Medical Image Analysis	6	A1X	1	E
TBMI04	eHealth: Aims and Applications	6	G2X	2/4	E
TBMI19	Medical Information Systems	6*	A1X	3	E
TDDC73	Interaction Programming	6	G2X	1	E
TDDC90	Software Security	6	A1X	1	E
TDDD07	Real Time Systems	6	A1X	4	E
TDDD38	Advanced Programming in C++	6*	A1X	-	E
TDDD49	Programming in C# and .NET Framework	4	G2X	3	E
TDDD55	Compilers and Interpreters	4	G2X	1	E
TDDE01	Machine Learning	6	A1X	1	E
TDDE02	Software Entrepreneurship	6	A1X	2	E
TDDE18	Programming C++	6*	G2X	1	E



Course code	Course name	Credits	Level	Timetable module	ECV
TDDI07	Distributed Embedded Software and Networks	4	G2X	1	E
TDEI19	Management Control	6	A1X	2	E
TDEI21	Strategic Organisational Application of IT - Workflow and Knowledge Management	6	A1X	4	E
TEIM03	Intercultural Communication	4	G1X	4	E
TEIO32	Project Management and Organization	6*	G2X	1	E
TGTU04	Leadership	6	G2X	2	E
TGTU49	History of Technology	6	G1X	3	E
THFR05	Communicative French	6*	G1X	4	E
THSP05	Spanish	6*	G1X	4	E
THTY05	German	6*	G1X	4	Е
TKMJ24	Environmental Engineering	6	G1N	3	E
TSBB06	Multidimensional Signal Analysis	6*	A1X	3	E
TSBB09	Image Sensors	6	A1X	4	Е
TSEA29	Microcomputer, Project Laboratory	8*	G2X	-	E
TSEK37	Analog CMOS Integrated Circuits	6	A1X	1	Е
TSFS02	Vehicle Dynamics and Control	6	A1X	1	E
TSIN02	Internetworking	6	A1N	1	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
TSRT08	Optimal Control	6	A1X	3	E
TSRT78	Digital Signal Processing	6	A1X	2	E



Specialisation: AI and Machine Learning

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDDC17	Artificial Intelligence	6	G2X	3	С
TAMS24	Statistics, First Course	4	G2X	4	E
TBMI19	Medical Information Systems	6*	A1X	2	Е
TDDD08	Logic Programming	6	A1X	4	E
TSBB06	Multidimensional Signal Analysis	6*	A1X	2	Е
TSBB08	Digital Image Processing	6	A1X	4	E
Period 2					
TDDE01	Machine Learning	6	A1X	1	С
TBMI19	Medical Information Systems	6*	A1X	3	E
TSBB06	Multidimensional Signal Analysis	6*	A1X	3	E
TSRT78	Digital Signal Processing	6	A1X	2	E

$Specialisation: Autonomous \, Systems$

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDDC17	Artificial Intelligence	6	G2X	3	С
TSBB08	Digital Image Processing	6	A1X	4	С
TSFS12	Autonomous Vehicles - Planning, Control, and Learning Systems	6	A1X	1	С
Period 2					
TSIT02	Computer Security	6	G2F	2	E
TSRT08	Optimal Control	6	A1X	3	E



Specialisation: Communication

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	С
TDTS06	Computer Networks	6	G2X	1	Е
Period 2					
TSKS01	Digital Communication	6*	A1X	4	С
TDDE01	Machine Learning	6	A1X	1	E
TSIN02	Internetworking	6	A1N	1	Е
TSKS11	Networks: Models, Algorithms and Applications	6	G2X	3	E
TSRT78	Digital Signal Processing	6	A1X	2	E

Specialisation: Computer Games Programming

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDDD23	Design and Programming of Computer Games	6	A1X	2	С
TDDC17	Artificial Intelligence	6	G2X	3	E
TDDD53	Advanced Interaction Design	6	A1X	1	E
Period 2					
TDDC73	Interaction Programming	6	G2X	1	С
TDDE02	Software Entrepreneurship	6	A1X	2	E



Specialisation: Computer Systems Architecture

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDDD04	Software Testing	6	A1X	2	E
TDTS06	Computer Networks	6	G2X	1	E
TDTS08	Advanced Computer Architecture	6	A1X	2	E
TSTE86	Digital Integrated Circuits	6	A1X	2	E
Period 2					
TDDD07	Real Time Systems	6	A1X	4	E
TSIT02	Computer Security	6	G2F	2	E

Specialisation: Industrial Economics

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TEAE01	Industrial Economics, Basic Course	6	G1X	2	С
TEIO32	Project Management and Organization	6*	G2X	3	С
Period 2					
TDDE02	Software Entrepreneurship	6	A1X	2	С
TEIO32	Project Management and Organization	6*	G2X	1	С

Specialisation: International Software Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDDD04	Software Testing	6	A1X	2	E
TDDD38	Advanced Programming in C++	6*	A1X	2	E
TDDE45	Software Design and Construction	6	A1X	4	E
Period 2					
TEAE01	Industrial Economics, Basic Course	6	G1X	2	С
TDDD38	Advanced Programming in C++	6*	A1X	-	E
TDDE02	Software Entrepreneurship	6	A1X	2	E
TDEI19	Management Control	6	A1X	2	E
TEIM03	Intercultural Communication	4	G1X	4	E
TSIT02	Computer Security	6	G2F	2	E



Specialisation: Large Scale Software Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDDC34	Technical, Economic and Societal Evaluation of IT-products	6	A1X	3	E
TDDD04	Software Testing	6	A1X	2	Е
TDDE45	Software Design and Construction	6	A1X	4	Е
Period 2					
TDDD37	Database Technology	6	G2X	1	E
TDDE02	Software Entrepreneurship	6	A1X	2	E

Specialisation: Medical Informatics

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TBME04	Anatomy and Physiology	6	G2X	3	С
TBMI19	Medical Information Systems	6*	A1X	2	С
TDDC17	Artificial Intelligence	6	G2X	3	E
TDDD53	Advanced Interaction Design	6	A1X	1	E
Period 2					
TBMI19	Medical Information Systems	6*	A1X	3	С
TBME03	Biochemistry and Cell Biology	6	G2X	2	E
TBMI04	eHealth: Aims and Applications	6	G2X	2/4	E
TDDD37	Database Technology	6	G2X	1	Е
TSIT02	Computer Security	6	G2F	2	E



Specialisation: Programming and Algorithms Specialization

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDDC17	Artificial Intelligence	6	G2X	3	E
TDDD04	Software Testing	6	A1X	2	E
TDDD08	Logic Programming	6	A1X	4	E
TDDD38	Advanced Programming in C++	6*	A1X	2	E
TDDE45	Software Design and Construction	6	A1X	4	E
Period 2					
TDDC90	Software Security	6	A1X	1	E
TDDD37	Database Technology	6	G2X	1	E
TDDD38	Advanced Programming in C++	6*	A1X	-	E
TSIT02	Computer Security	6	G2F	2	E
TSKS11	Networks: Models, Algorithms and Applications	6	G2X	3	E

Specialisation: Secure Systems

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDDE45	Software Design and Construction	6	A1X	4	С
TDDD38	Advanced Programming in C++	6*	A1X	2	E
TDTS06	Computer Networks	6	G2X	1	Е
TSIT03	Cryptology	6	A1X	2	E
Period 2					
TDDC90	Software Security	6	A1X	1	С
TSIT02	Computer Security	6	G2F	2	С
TDDD37	Database Technology	6	G2X	1	E
TDDD38	Advanced Programming in C++	6*	A1X	-	E



Specialisation: Signal and Image Processing

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

Semester 8 (Spring 2020)

Period 1TANA15Numerical Linear Algebra6A1X1ETATA53Linear Algebra, Honours Course6*G2X-ETATA54Number Theory6*G2X3ETATA64Graph Theory6*A1X2ETBMI01Medical Decision Support6A1X4ETBMI03Medical Information Models and Ontologies6A1X4ETBMI26Neural Networks and Learning Systems6A1X2ETBMT02Medical Imaging6A1F3ETBMT09Physiological Pressures and Flows6A1N1ETBMT32Perspectives on Biomedical Engineering2*G1X3E	Course code	Course name	Credits	Level	Timetable module	ECV
TATA53 Linear Algebra, Honours Course 6* G2X - E TATA54 Number Theory 6* G2X 3 E TATA64 Graph Theory 6* A1X 2 E TBMI01 Medical Decision Support 6 A1X 4 E TBMI03 Medical Information Models and Ontologies 6 A1X 4 E TBMI26 Neural Networks and Learning Systems 6 A1X 2 E TBMT02 Medical Imaging 6 A1F 3 E TBMT09 Physiological Pressures and Flows 6 A1N 1 E	Period 1					
TATA54 Number Theory 6* G2X 3 E TATA64 Graph Theory 6* A1X 2 E TBMI01 Medical Decision Support 6 A1X 4 E TBMI03 Medical Information Models and Ontologies 6 A1X 4 E TBMI26 Neural Networks and Learning Systems 6 A1X 2 E TBMT02 Medical Imaging 6 A1F 3 E TBMT09 Physiological Pressures and Flows 6 A1N 1 E	TANA15	Numerical Linear Algebra	6	A1X	1	E
TATA64 Graph Theory 6* A1X 2 E TBMI01 Medical Decision Support 6 A1X 4 E TBMI03 Medical Information Models and Ontologies 6 A1X 4 E TBMI26 Neural Networks and Learning Systems 6 A1X 2 E TBMT02 Medical Imaging 6 A1F 3 E TBMT09 Physiological Pressures and Flows 6 A1N 1 E	TATA53	Linear Algebra, Honours Course	6*	G2X	-	E
TBMI01 Medical Decision Support 6 A1X 4 E TBMI03 Medical Information Models and Ontologies 6 A1X 4 E TBMI26 Neural Networks and Learning Systems 6 A1X 2 E TBMT02 Medical Imaging 6 A1F 3 E TBMT09 Physiological Pressures and Flows 6 A1N 1 E	TATA54	Number Theory	6*	G2X	3	Е
TBMI03 Medical Information Models and Ontologies 6 A1X 4 E TBMI26 Neural Networks and Learning Systems 6 A1X 2 E TBMT02 Medical Imaging 6 A1F 3 E TBMT09 Physiological Pressures and Flows 6 A1N 1 E	TATA64	Graph Theory	6*	A1X	2	Е
TBMI26 Neural Networks and Learning Systems 6 A1X 2 E TBMT02 Medical Imaging 6 A1F 3 E TBMT09 Physiological Pressures and Flows 6 A1N 1 E	TBMI01	Medical Decision Support	6	A1X	4	E
TBMT02Medical Imaging6A1F3ETBMT09Physiological Pressures and Flows6A1N1E	TBMI03	Medical Information Models and Ontologies	6	A1X	4	E
TBMT09 Physiological Pressures and Flows 6 A1N 1 E	TBMI26	Neural Networks and Learning Systems	6	A1X	2	E
	TBMT02	Medical Imaging	6	A1F	3	E
TBMT32 Perspectives on Biomedical Engineering 2* G1X 3 E	ТВМТ09	Physiological Pressures and Flows	6	A1N	1	E
	TBMT32	Perspectives on Biomedical Engineering	2*	G1X	3	E
TDDA69 Data and Program Structures 6* G2X 3 E	TDDA69	Data and Program Structures	6*	G2X	3	Е
TDDD17 Information Security, Second Course 6* A1X 4 E	TDDD17	Information Security, Second Course	6*	A1X	4	E
TDDD20 Design and Analysis of Algorithms 6 A1X 3 E	TDDD20	Design and Analysis of Algorithms	6	A1X	3	Е
TDDD25 Distributed Systems 6 A1X 2 E	TDDD25	Distributed Systems	6	A1X	2	E
TDDD38 Advanced Programming in C++ 6* A1X 2 E	TDDD38	Advanced Programming in C++	6*	A1X	2	E
TDDD41 Data Mining - Clustering and Association Analysis 6 A1X 3 E	TDDD41		6	A1X	3	E
TDDD50 Green Computing 4 G2X 4 E	TDDD50	Green Computing	4	G2X	4	E
TDDD57 Physical Interaction and Game Programming 6 A1X 1 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
TDDD76	Software Engineering Project	8*	G2X	2	E
TDDD95	Algorithmic Problem Solving	6*	A1X	1	Е
TDDD97	Web Programming	6	G2X	3	E
TDDE05	Al Robotics	6*	A1N	4	Е
TDDE06	Large-Scale Software Development - Structures and Processes	6*	A1X	4	E
TDDE09	Natural Language Processing	6	A1X	2	E
TDDE46	Software Quality	6*	A1N	2	E
TDTS07	System Design and Methodology	6	A1X	1	E
TDTS21	Advanced Networking	6*	A1X	1	E
TEIE88	Computer Law	4	G1X	1	E
TEIO13	Leadership and Organizational Change	6	A1X	4	E
TEIO94	Entrepreneurship and Idea Development	6*	G2X	4	Е
TGTU94	Technology and Ethics	6	G1X	1	E
THFR05	Communicative French	6*	G1X	4	Е
THSP05	Spanish	6*	G1X	4	Е
THTY05	German	6*	G1X	4	E
TKMJ15	Environmental Management Strategies	6	G1F	3	Е
TNM048	Information Visualisation	6	A1X	3	E
TSBB15	Computer Vision	12*	A1X	1	E
TSBK07	Computer Graphics	6*	A1X	4	E
TSBK08	Data Compression	6	A1N	2	E
TSEK06	VLSI Design	12*	A1X	4	E
TSEK38	Radio Frequency Transceiver Design	6	A1X	2	E
TSKS13	Wireless Communications	6	A1F	4	E
TSRT07	Industrial Control Systems	6	A1N	2	E
TSRT09	Control Theory	6	A1N	3	E
TSTE08	Analog and Discrete-Time Integrated Circuits	6	A1X	3	E
TSTE14	Analog Filters	6	A1X	2	E
TSTE93	Analog Circuits	6*	G2X	1	Е
Period 2					



Course code	Course name	Credits	Level	Timetable module	ECV
TAOP87	Applied Optimization Project Course	6	A1X	3	Е
TATA53	Linear Algebra, Honours Course	6*	G2X	-	E
TATA54	Number Theory	6*	G2X	1	E
TATA64	Graph Theory	6*	A1X	2	E
TBMT26	Technology in Intensive Care and Surgery	6	A1X	1	E
TBMT32	Perspectives on Biomedical Engineering	2*	G1X	3	Е
TDDA69	Data and Program Structures	6*	G2X	1	E
TDDC78	Programming of Parallel Computers - Methods and Tools	6	A1X	3	E
TDDD14	Formal Languages and Automata Theory	6	G2X	2	E
TDDD17	Information Security, Second Course	6*	A1X	4	Е
TDDD27	Advanced Web Programming	6	A1N	3	Е
TDDD38	Advanced Programming in C++	6*	A1X	-	Е
TDDD48	Automated Planning	6	A1X	1	Е
TDDD76	Software Engineering Project	8*	G2X	2	E
TDDD95	Algorithmic Problem Solving	6*	A1X	4	Е
TDDE05	Al Robotics	6*	A1N	4	Е
TDDE06	Large-Scale Software Development - Structures and Processes	6*	A1X	4	E
TDDE07	Bayesian Learning	6	A1F	2	E
TDDE31	Big Data Analytics	6	A1X	3	Е
TDDE34	Software Verification	6	A1X	1	E
TDDE41	Software Architectures	6	A1X	1	E
TDDE46	Software Quality	6*	A1N	2	Е
TDEI35	Strategy and Management Control	6	A1X	2	E
TDTS21	Advanced Networking	6*	A1X	1	E
TEAE13	Civil and Commercial Law	6	G1X	2	Е
TEIE44	Intellectual Property Rights	4	G1X	1	E
TEIO06	Innovative Entrepreneurship	6	A1X	2	E
TEIO94	Entrepreneurship and Idea Development	6*	G2X	4	E
TEIO95	eHealth: Innovation and Entrepreneurship	6	G2F	2/4	E
TFYA19	Quantum Computers	6	A1X	4	E
TGTU95	Philosophy of Science and Technology	6	G1X	4	E
					



Course code	Course name	Credits	Level	Timetable module	ECV
THFR05	Communicative French	6*	G1X	4	E
THSP05	Spanish	6*	G1X	4	E
THTY05	German	6*	G1X	4	E
TNM079	Modelling and Animation	6	A1X	2	Е
TSBB15	Computer Vision	12*	A1X	3	Е
TSBK02	Image and Audio Coding	6	A1X	4	E
TSBK07	Computer Graphics	6*	A1X	1	Е
TSEK06	VLSI Design	12*	A1X	4	E
TSFS06	Diagnosis and Supervision	6	A1N	1	Е
TSKS14	Multiple Antenna Communications	6	A1X	3	E
TSKS16	Signal Processing for Communications	6	A1N	1	E
TSRT14	Sensor Fusion	6	A1N	2	Е
TSTE06	Digital Filters	6	A1X	3	E
TSTE87	Application-Specific Integrated Circuits	6	A1X	2	E
TSTE93	Analog Circuits	6*	G2X	1	E

 $Specialisation: AI\ and\ Machine\ Learning$



Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TBMI26	Neural Networks and Learning Systems	6	A1X	2	Е
TDDD20	Design and Analysis of Algorithms	6	A1X	3	Е
TDDD41	Data Mining - Clustering and Association Analysis	6	A1X	3	E
TDDD95	Algorithmic Problem Solving	6*	A1X	1	Е
TDDE05	Al Robotics	6*	A1N	4	E
TDDE09	Natural Language Processing	6	A1X	2	E
TSRT07	Industrial Control Systems	6	A1N	2	E
Period 2					
TDDD48	Automated Planning	6	A1X	1	E
TDDD95	Algorithmic Problem Solving	6*	A1X	4	E
TDDE05	Al Robotics	6*	A1N	4	E
TDDE07	Bayesian Learning	6	A1F	2	E
TDDE31	Big Data Analytics	6	A1X	3	E
TSFS06	Diagnosis and Supervision	6	A1N	1	E
TSRT14	Sensor Fusion	6	A1N	2	E

Specialisation: Autonomous Systems

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TSRT07	Industrial Control Systems	6	A1N	2	С
TDDE05	Al Robotics	6*	A1N	4	E
TSBB15	Computer Vision	12*	A1X	1	E
TSRT09	Control Theory	6	A1N	3	E
Period 2					
TDDE05	Al Robotics	6*	A1N	4	E
TSBB15	Computer Vision	12*	A1X	3	E
TSFS06	Diagnosis and Supervision	6	A1N	1	E
TSRT14	Sensor Fusion	6	A1N	2	E



Specialisation: Communication

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TBMI26	Neural Networks and Learning Systems	6	A1X	2	Е
TDTS21	Advanced Networking	6*	A1X	1	Е
TSBK08	Data Compression	6	A1N	2	E
TSKS13	Wireless Communications	6	A1F	4	E
Period 2					
TDTS21	Advanced Networking	6*	A1X	1	E
TFYA19	Quantum Computers	6	A1X	4	E
TSBK02	Image and Audio Coding	6	A1X	4	E
TSKS14	Multiple Antenna Communications	6	A1X	3	E
TSKS16	Signal Processing for Communications	6	A1N	1	E

Specialisation: Computer Games Programming

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDDD57	Physical Interaction and Game Programming	6	A1X	1	С
TSBK07	Computer Graphics	6*	A1X	4	С
TBMI26	Neural Networks and Learning Systems	6	A1X	2	E
Period 2					
TSBK07	Computer Graphics	6*	A1X	1	С
TNM079	Modelling and Animation	6	A1X	2	E



Specialisation: Computer Systems Architecture

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDDA69	Data and Program Structures	6*	G2X	3	Е
TDDD25	Distributed Systems	6	A1X	2	E
TDDD38	Advanced Programming in C++	6*	A1X	2	E
TDDD97	Web Programming	6	G2X	3	E
TDTS07	System Design and Methodology	6	A1X	1	E
TDTS21	Advanced Networking	6*	A1X	1	E
Period 2					
TDDA69	Data and Program Structures	6*	G2X	1	E
TDDC78	Programming of Parallel Computers - Methods and Tools	6	A1X	3	E
TDDD14	Formal Languages and Automata Theory	6	G2X	2	Е
TDDD27	Advanced Web Programming	6	A1N	3	E
TDDD38	Advanced Programming in C++	6*	A1X	-	E
TDDE34	Software Verification	6	A1X	1	E
TDDE41	Software Architectures	6	A1X	1	E
TDTS21	Advanced Networking	6*	A1X	1	E

$Specialisation: Industrial\ Economics$

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TEIO13	Leadership and Organizational Change	6	A1X	4	С
Period 2					
TEIO06	Innovative Entrepreneurship	6	A1X	2	С



Specialisation: Large Scale Software Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDDE06	Large-Scale Software Development - Structures and Processes	6*	A1X	4	E
TDDE46	Software Quality	6*	A1N	2	Е
Period 2					
TDDE06	Large-Scale Software Development - Structures and Processes	6*	A1X	4	E
TDDE34	Software Verification	6	A1X	1	E
TDDE41	Software Architectures	6	A1X	1	Е
TDDE46	Software Quality	6*	A1N	2	Е

Specialisation: Medical Informatics

		module	ECV
6	A1X	4	E
6	A1X	4	E
6	A1X	2	E
6*	A1X	4	Е
6	A1X	1	E
6*	A1X	4	E
6	A1X	3	E
6	G2F	2/4	E
	6 6 6* 6 6* 6 6*	6 A1X 6* A1X 6* A1X 6* A1X 6* A1X 6* A1X	6 A1X 4 6 A1X 4 6 A1X 2 6* A1X 4 6 A1X 4 6 A1X 4 6 A1X 3



Specialisation: Programming and Algorithms Specialization

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDDA69	Data and Program Structures	6*	G2X	3	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
TDDD95	Algorithmic Problem Solving	6*	A1X	1	Е
TDDE09	Natural Language Processing	6	A1X	2	E
Period 2					
TDDA69	Data and Program Structures	6*	G2X	1	E
TDDC78	Programming of Parallel Computers - Methods and Tools	6	A1X	3	E
TDDD14	Formal Languages and Automata Theory	6	G2X	2	E
TDDD38	Advanced Programming in C++	6*	A1X	-	E
TDDD95	Algorithmic Problem Solving	6*	A1X	4	E
TDDE34	Software Verification	6	A1X	1	E
TDDE41	Software Architectures	6	A1X	1	E

Specialisation: Secure Systems

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDDD17	Information Security, Second Course	6*	A1X	4	С
TDDD38	Advanced Programming in C++	6*	A1X	2	Е
TDDD97	Web Programming	6	G2X	3	Е
TDDE46	Software Quality	6*	A1N	2	Е
TDTS21	Advanced Networking	6*	A1X	1	Е
Period 2					
TDDD17	Information Security, Second Course	6*	A1X	4	С
TDDD27	Advanced Web Programming	6	A1N	3	Е
TDDD38	Advanced Programming in C++	6*	A1X	-	Е
TDDE46	Software Quality	6*	A1N	2	Е
TDTS21	Advanced Networking	6*	A1X	1	Е



Specialisation: Signal and Image Processing

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TBMI26	Neural Networks and Learning Systems	6	A1X	2	Е
TBMT02	Medical Imaging	6	A1F	3	Е
TDDE09	Natural Language Processing	6	A1X	2	E
TNM048	Information Visualisation	6	A1X	3	E
TSBB15	Computer Vision	12*	A1X	1	E
TSBK07	Computer Graphics	6*	A1X	4	E
TSBK08	Data Compression	6	A1N	2	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
TSRT14	Sensor Fusion	6	A1N	2	E

Semester 9 (Autumn 2020)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TANA21	Scientific Computing	6	G1X	3	C/E
TBMI28	eHealth Project	12*	A1X	2/4	E
TBMT14	Biomedical Engineering - Project Course	12*	A1X	4	E
TDDD43	Advanced Data Models and Databases	6*	A1X	2	E
TDDD53	Advanced Interaction Design	6	A1X	1	E
TDDE14	Large-Scale Software Development: Contributions and Evolution	6*	A1X	4	E
TDDE15	Advanced Machine Learning	6	A1X	1	E
TDDE19	Advanced Project Course - Al and Machine Learning	6*	A1F	4	E
TDDE20	Advanced Project Course - Game, App and Web Development	6*	A1X	4	E
TDDE21	Advanced Project Course: Secure Distributed and Embedded Systems	6*	A1X	4	E
TDDE45	Software Design and Construction	6	A1X	4	E



Course code	Course name	Credits	Level	Timetable module	ECV
TDEI13	Enterprise Resource Planning Systems: Process and Implementation	6	A1X	2	E
TDEI72	Strategy and Digitisation - Technology, Standards and Network Effects	6	A1X	4	E
TEIM11	Industrial Marketing	6	G2X	3	E
TEIO90	Innovation Management	6	A1X	2	E
TNCG15	Advanced Global Illumination and Rendering	6	A1X	4	E
TNM067	Scientific Visualization	6	A1X	3	E
TNM095	Artificial Intelligence for Interactive Media	6	A1X	2	Е
TSBB11	Images and Graphics, Project Course CDIO	12*	A1X	4	Е
TSBB17	Visual Object Recognition and Detection	6	A1X	2	E
TSBK03	Advanced Game Programming	6*	A1X	1	E
TSEA84	Digital Design Project	6*	A1X	3	E
TSEK03	Radio Frequency Integrated Circuits	6	A1X	2	E
TSEK11	Evaluation of an Integrated Circuit	2	A1X	4	E
TSFS12	Autonomous Vehicles - Planning, Control, and Learning Systems	6	A1X	1	E
TSIN01	Information Networks	6	A1X	3	Е
TSIT03	Cryptology	6	A1X	2	E
TSKS12	Modern Channel Coding, Inference and Learning	6	A1X	1	E
TSRT10	Automatic Control - Project Course	12*	A1F	4	Е
TSTE17	System Design	12*	A1F	4	E
TSTE25	Power Electronics	6	A1X	3	E
Period 2					
TDDD89	Scientific Method	6	A1X	3	С
TANA09	Numerical Algorithms in Computer Science	4	G2X	1	C/E
TAOP61	Optimization of Realistic Complex Systems	6	A1N	3	E
TBMI28	eHealth Project	12*	A1X	-	E
TBMT14	Biomedical Engineering - Project Course	12*	A1X	4	Е
TDDB44	Compiler Construction	6	A1X	1	E
TDDD43	Advanced Data Models and Databases	6*	A1X	2	E
TDDD56	Multicore and GPU Programming	6	A1X	2	E
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Course code	Course name	Credits	Level	Timetable module	ECV
TDDE13	Multi Agent Systems	6	A1X	1	E
TDDE14	Large-Scale Software Development: Contributions and Evolution	6*	A1X	4	E
TDDE16	Text Mining	6	A1X	2	E
TDDE19	Advanced Project Course - Al and Machine Learning	6*	A1F	4	E
TDDE20	Advanced Project Course - Game, App and Web Development	6*	A1X	4	E
TDDE21	Advanced Project Course: Secure Distributed and Embedded Systems	6*	A1X	4	E
TNM086	Virtual Reality Techniques	6	A1X	2	Е
TSBB11	Images and Graphics, Project Course CDIO	12*	A1X	4	E
TSBK03	Advanced Game Programming	6*	A1X	-	Е
TSEA26	Design of Embedded DSP Processor	6	A1X	2	Е
TSEA44	Computer Hardware - a System on Chip	6	A1F	1	E
TSEA84	Digital Design Project	6*	A1X	3	E
TSRT10	Automatic Control - Project Course	12*	A1F	4	E
TSTE17	System Design	12*	A1F	4	E
TSTE26	Powergrid and Technology for Renewable Production	6	A1X	3	E
TSTE85	Low Power Electronics	6	A1N	2	E



Specialisation: AI and Machine Learning

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDDE19	Advanced Project Course - Al and Machine Learning	6*	A1F	4	С
TDDE15	Advanced Machine Learning	6	A1X	1	E
TSBB17	Visual Object Recognition and Detection	6	A1X	2	E
TSFS12	Autonomous Vehicles - Planning, Control, and Learning Systems	6	A1X	1	E
TSRT92	Modelling and Learning for Dynamical Systems	6	A1X	3	E
Period 2					
TDDE19	Advanced Project Course - Al and Machine Learning	6*	A1F	4	С
TDDE13	Multi Agent Systems	6	A1X	1	E
TDDE16	Text Mining	6	A1X	2	E

$Specialisation: Autonomous \, Systems$

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TSBB17	Visual Object Recognition and Detection	6	A1X	2	E
TSRT10	Automatic Control - Project Course	12*	A1F	4	E
Period 2					
TDDE01	Machine Learning	6	A1X	1	С
TSRT10	Automatic Control - Project Course	12*	A1F	4	E



Specialisation: Communication

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
TSKS23	Project Course in Signal Processing, Communications and Networking, CDIO	12*	A1X	4	E
Period 2					
TDDD07	Real Time Systems	6	A1X	4	E
TSKS23	Project Course in Signal Processing, Communications and Networking, CDIO	12*	A1X	4	E

Specialisation: Computer Games Programming

	1		U		
Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TSBK03	Advanced Game Programming	6*	A1X	1	С
TDDE20	Advanced Project Course - Game, App and Web Development	6*	A1X	4	E
TNCG15	Advanced Global Illumination and Rendering	6	A1X	4	Е
TSBB11	Images and Graphics, Project Course CDIO	12*	A1X	4	Е
Period 2					
TSBK03	Advanced Game Programming	6*	A1X	-	С
TDDE20	Advanced Project Course - Game, App and Web Development	6*	A1X	4	E
TSBB11	Images and Graphics, Project Course CDIO	12*	A1X	4	Е
TSIN02	Internetworking	6	A1N	1	Е



Specialisation: Computer Systems Architecture

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDDD43	Advanced Data Models and Databases	6*	A1X	2	E
TDDE21	Advanced Project Course: Secure Distributed and Embedded Systems	6*	A1X	4	E
TSIT03	Cryptology	6	A1X	2	E
TSKS01	Digital Communication	6*	A1X	4	E
Period 2					
TDDB44	Compiler Construction	6	A1X	1	E
TDDC90	Software Security	6	A1X	1	E
TDDD37	Database Technology	6	G2X	1	E
TDDD43	Advanced Data Models and Databases	6*	A1X	2	E
TDDD56	Multicore and GPU Programming	6	A1X	2	E
TDDE21	Advanced Project Course: Secure Distributed and Embedded Systems	6*	A1X	4	E
TSEA26	Design of Embedded DSP Processor	6	A1X	2	E
TSIN02	Internetworking	6	A1N	1	E
TSKS01	Digital Communication	6*	A1X	4	E

Specialisation: Industrial Economics

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TEIM11	Industrial Marketing	6	G2X	3	С
TEIO90	Innovation Management	6	A1X	2	С
TDEI72	Strategy and Digitisation - Technology, Standards and Network Effects	6	A1X	4	E



Specialisation: International Software Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDDC34	Technical, Economic and Societal Evaluation of IT-products	6	A1X	3	С
TDDD69	Software Engineering - Company Project	6*	A1N	1	С
TDDD04	Software Testing	6	A1X	2	E
TDDD38	Advanced Programming in C++	6*	A1X	2	E
TDDD43	Advanced Data Models and Databases	6*	A1X	2	E
TDDE45	Software Design and Construction	6	A1X	4	E
TDEI13	Enterprise Resource Planning Systems: Process and Implementation	6	A1X	2	E
Period 2					
TDDD69	Software Engineering - Company Project	6*	A1N	1	С
TDDC90	Software Security	6	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
TDEI19	Management Control	6	A1X	2	E
TEIM03	Intercultural Communication	4	G1X	4	E

Specialisation: Large Scale Software Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDDE14	Large-Scale Software Development: Contributions and Evolution	6*	A1X	4	E
Period 2					
TDDE14	Large-Scale Software Development: Contributions and Evolution	6*	A1X	4	E



Specialisation: Medical Informatics

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TBMI28	eHealth Project	12*	A1X	2/4	E
TBMT14	Biomedical Engineering - Project Course	12*	A1X	4	E
TDDC17	Artificial Intelligence	6	G2X	3	E
TDDD43	Advanced Data Models and Databases	6*	A1X	2	E
Period 2					
TBMI28	eHealth Project	12*	A1X	-	E
TBMT14	Biomedical Engineering - Project Course	12*	A1X	4	E
TDDD43	Advanced Data Models and Databases	6*	A1X	2	E
TDDE01	Machine Learning	6	A1X	1	E

$Specialisation: Programming\ and\ Algorithms\ Specialization$

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDDD08	Logic Programming	6	A1X	4	E
TDDE45	Software Design and Construction	6	A1X	4	Е
TSIT03	Cryptology	6	A1X	2	Е
Period 2					
TDDB44	Compiler Construction	6	A1X	1	E
TDDD56	Multicore and GPU Programming	6	A1X	2	E



Specialisation: Secure Systems

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDDD04	Software Testing	6	A1X	2	С
TDDD38	Advanced Programming in C++	6*	A1X	2	Е
TDDE21	Advanced Project Course: Secure Distributed and Embedded Systems	6*	A1X	4	E
TDTS06	Computer Networks	6	G2X	1	Е
TSIT03	Cryptology	6	A1X	2	Е
Period 2					
TDDC90	Software Security	6	A1X	1	С
TDDD37	Database Technology	6	G2X	1	Е
TDDD38	Advanced Programming in C++	6*	A1X	-	Е
TDDE21	Advanced Project Course: Secure Distributed and Embedded Systems	6*	A1X	4	E

Specialisation: Signal and Image Processing

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TNM067	Scientific Visualization	6	A1X	3	E
TSBB11	Images and Graphics, Project Course CDIO	12*	A1X	4	E
TSBB17	Visual Object Recognition and Detection	6	A1X	2	E
TSBK03	Advanced Game Programming	6*	A1X	1	E
TSKS15	Detection and Estimation of Signals	6	A1X	2	E
Period 2					
TBMI02	Medical Image Analysis	6	A1N	1	E
TDDD56	Multicore and GPU Programming	6	A1X	2	E
TDDE01	Machine Learning	6	A1X	1	E
TNM086	Virtual Reality Techniques	6	A1X	2	E
TSBB11	Images and Graphics, Project Course CDIO	12*	A1X	4	E
TSBK03	Advanced Game Programming	6*	A1X	-	E



Semester 10 (Spring 2021)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TQXX33	Degree project - Master's Thesis	30*	A1X	=	С
Period 2					
TQXX33	Degree project - Master's Thesis	30*	A1X	-	С



ECV = Elective / Compulsory /Voluntary
*The course is divided into several semesters and/or periods