

Computer Science and Engineering, M Sc in Engineering

300 credits

Civilingenjör i datateknik

6CDDD

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 code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TATA41	Calculus in One Variable 1	6	G1X	4	С
TDDD78	Object Oriented Programming and Java	6*	G1X	1	С
TDDD79	Professionalism for Engineers, part 2	1*	G1X	-	С
TSTE24	Electronics	5*	G1X	3	С
Period 2					
TATA42	Calculus in One Variable 2	6	G1X	2	С
TDDD78	Object Oriented Programming and Java	6*	G1X	1	С
TDDD79	Professionalism for Engineers, part 2	1*	G1X	-	С
TSEA22	Switching Theory and Logical Design	6	G1X	3	С
TSTE24	Electronics	5*	G1X	4	С

Semester 3 (Autumn 2017)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TATA24	Linear Algebra	8*	G1X	4	С
TDDD84	Professionalism for Engineers, part 3	1*	G1X	-	С
TDDD86	Data Structures, Algorithms and Programming Paradigms	11*	G1X	2	С
TSEA82	Computer Hardware and Architecture	4	G1X	3	С
TATA40	Perspectives on Mathematics	1*	G1X	-	V
Period 2					
TATA24	Linear Algebra	8*	G1X	4	С
TDDD84	Professionalism for Engineers, part 3	1*	G1X	-	С
TDDD86	Data Structures, Algorithms and Programming Paradigms	11*	G1X	3	С
TFYY68	Engineering Mechanics	6	G2X	1	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
TDDB68	Concurrent Programming and Operating Systems	6	G2X	3	С
TDDD79	Professionalism for Engineers, part 2	1*	G1X	-	С
TDDD94	Professionalism for Engineers, part 4	1*	G1X	-	С
TDDD98	Professionalism for Engineers, part 6	1*	G1X	-	С
TSEA83	Computer Hardware and Architecture	8*	G1X	2	С
TFFM12	Perspectives on Physics	2*	G1X	-	E
THEN18	English	6*	G1N	1	E
TATA40	Perspectives on Mathematics	1*	G1X	-	V
TGTU63	Visits to Industry	1*	G1X	-	V
Period 2					
TAMS27	Mathematical Statistics	6	G2X	2	С
TDDD79	Professionalism for Engineers, part 2	1*	G1X	-	С
TDDD94	Professionalism for Engineers, part 4	1*	G1X	-	С
TDDD98	Professionalism for Engineers, part 6	1*	G1X	-	С
TFYA86	Physics	5	G2X	1	С
TSEA83	Computer Hardware and Architecture	8*	G1X	4	С
TFFM12	Perspectives on Physics	2*	G1X	-	E
THEN18	English	6*	G1N	3	E
TPTE06	Industrial Placement	6	G1X	-	E
TSRT04	Introduction in Matlab	2	G1X	1	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					
TAOP33	Combinatorial Optimization, Introductory Course	4	G2X	2	С
TDDC93	Software Engineering Theory	4	G2X	1	С
TDDD91	Professionalism for Engineers, part 5	1*	G1X	-	С
TSDT84	Signals and Systems, and Transform Theory	8*	G2X	4	С
TSEA29	Microcomputer, Project Laboratory	8*	G2X	3	С
TGTU63	Visits to Industry	1*	G1X	-	V
Period 2					
TDDD88	Logic	5	G1X	2	С
TDDD91	Professionalism for Engineers, part 5	1*	G1X	-	С
TSDT84	Signals and Systems, and Transform Theory	8*	G2X	3	С
TSEA29	Microcomputer, Project Laboratory	8*	G2X	-	С
TFMT13	Measurement Technology	4	G1X	1	E
TGTU63	Visits to Industry	1*	G1X	-	V



Semester 6 (Spring 2019)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDDD60	Interactive Systems	4	G1X	4	С
TDDD79	Professionalism for Engineers, part 2	1*	G1X	-	С
TDDD94	Professionalism for Engineers, part 4	1*	G1X	-	С
TDDD96	Software Engineering - Bachelor Project	15*	G2X	2/3	С
TDDD98	Professionalism for Engineers, part 6	1*	G1X	-	С
TSRT12	Automatic Control	6	G2X	1	С
Period 2					
TDDD79	Professionalism for Engineers, part 2	1*	G1X	-	С
TDDD94	Professionalism for Engineers, part 4	1*	G1X	-	С
TDDD96	Software Engineering - Bachelor Project	15*	G2X	2/4	С
TDDD98	Professionalism for Engineers, part 6	1*	G1X	-	С
TSKS10	Signals, Information and Communication	4	G2X	3	С

Semester 7 (Autumn 2019)

Course code	Course name	Credits	Level	Timetable module	ECV
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
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



Course code	Course name	Credits	Level	Timetable module	ECV
TDDD53	Advanced Interaction Design	6	A1X	1	E
TDDE45	Software Design and Construction	6	A1X	4	E
TDP024	Enterprise Systems	6	G2X	1	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
TFEI71	Electrical Measurement Systems	4	G1X	4	E
TGTU91	Oral and Written Communication	6	G1X	2	E
THFR05	Communicative French	6*	G1X	4	E
THSP05	Spanish	6*	G1X	4	E
THTY05	German	6*	G1X	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
TSFS09	Modelling and Control of Engines and Drivelines	6*	A1X	4	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
TATA55	Abstract Algebra	6*	G2X	3	E
TBME03	Biochemistry and Cell Biology	6	G2X	2	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
TDDD07	Real Time Systems	6	A1X	4	E
TDDD37	Database Technology	6	G2X	1	E



Course code	Course name	Credits	Level	Timetable module	ECV
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
TDDI07	Distributed Embedded Software and Networks	4	G2X	1	E
TDEI19	Management Control	6	A1X	2	E
TEAE01	Industrial Economics, Basic Course	6	G1X	2	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	E
TKMJ24	Environmental Engineering	6	G1N	3	E
TSBB06	Multidimensional Signal Analysis	6*	A1X	3	E
TSBB09	Image Sensors	6	A1X	4	E
TSEK02	Radio Electronics	6	A1X	3	E
TSEK37	Analog CMOS Integrated Circuits	6	A1X	1	E
TSFS02	Vehicle Dynamics and Control	6	A1X	1	E
TSFS09	Modelling and Control of Engines and Drivelines	6*	A1X	3	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



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	Е
TBMI19	Medical Information Systems	6*	A1X	2	Е
TDDD08	Logic Programming	6	A1X	4	E
TSBB06	Multidimensional Signal Analysis	6*	A1X	2	E
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
TSKS11	Networks: Models, Algorithms and Applications	6	G2X	3	E
TSRT78	Digital Signal Processing	6	A1X	2	E

Specialisation: AI and Machine Learning

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



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

Specialisation: Communication

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



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
TSKS11	Networks: Models, Algorithms and Applications	6	G2X	3	E

Specialisation: Computer Systems Architecture

Specialisation: Electronics

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TSKS01	Digital Communication	6*	A1X	4	С
TSTE86	Digital Integrated Circuits	6	A1X	2	С
TSTE12	Design of Digital Systems	6	A1X	3	E
Period 2					
TSEK37	Analog CMOS Integrated Circuits	6	A1X	1	С
TSKS01	Digital Communication	6*	A1X	4	С
TSEK02	Radio Electronics	6	A1X	3	E
TSEK37 TSKS01	Analog CMOS Integrated Circuits Digital Communication	6*	A1X	4	C

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



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: International Software Engineering

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	E
TDDE45	Software Design and Construction	6	A1X	4	E
Period 2					
TDDD37	Database Technology	6	G2X	1	E
TDDE02	Software Entrepreneurship	6	A1X	2	E



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	Е
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	E
TSIT02	Computer Security	6	G2F	2	E

Specialisation: Medical Informatics

Specialisation: Programming and Algorithms

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Course name	Credits	Level	Timetable module	ECV
Artificial Intelligence	6	G2X	3	E
Software Testing	6	A1X	2	E
Logic Programming	6	A1X	4	E
Advanced Programming in C++	6*	A1X	2	E
Software Design and Construction	6	A1X	4	E
Software Security	6	A1X	1	E
Database Technology	6	G2X	1	E
Advanced Programming in C++	6*	A1X	-	E
Computer Security	6	G2F	2	E
Networks: Models, Algorithms and Applications	6	G2X	3	E
	Artificial Intelligence Software Testing Logic Programming Advanced Programming in C++ Software Design and Construction Software Security Database Technology Advanced Programming in C++ Computer Security	Artificial Intelligence6Software Testing6Logic Programming6Advanced Programming in C++6*Software Design and Construction6Software Security6Database Technology6Advanced Programming in C++6*Computer Security6	Artificial Intelligence6G2XSoftware Testing6A1XLogic Programming6A1XAdvanced Programming in C++6*A1XSoftware Design and Construction6A1XSoftware Security6A1XDatabase Technology6G2XAdvanced Programming in C++6*A1XDatabase Technology6G2XAdvanced Programming in C++6*A1XComputer Security6G2F	Course nameCreditsLevelmoduleArtificial Intelligence6G2X3Software Testing6A1X2Logic Programming6A1X4Advanced Programming in C++6*A1X2Software Design and Construction6A1X4Software Security6A1X1Database Technology6G2X1Advanced Programming in C++6*A1X2Software Security6G2X1Database Technology6G2X1Computer Security6G2F2



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	E
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

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



3	С
2	С
1	E
4	E
4	E
1	E
1	E
4	E
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Specialisation: System-on-chip

Semester 8 (Spring 2020)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TANA15	Numerical Linear Algebra	6	A1X	1	E
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
TBMT32	Perspectives on Biomedical Engineering	2*	G1X	3	E
TDDA69	Data and Program Structures	6*	G2X	3	E
TDDD17	Information Security, Second Course	6*	A1X	4	E
TDDD20	Design and Analysis of Algorithms	6	A1X	3	E
TDDD25	Distributed Systems	6	A1X	2	E
TDDD38	Advanced Programming in C++	6*	A1X	2	E
TDDD41	Data Mining - Clustering and Association Analysis	6	A1X	3	E



Course code	Course name	Credits	Level	Timetable module	ECV
TDDD50	Green Computing	4	G2X	4	E
TDDD57	Physical Interaction and Game Programming	6	A1X	1	E
TDDD75	Effect-Driven Development and Human- Centered Design of Interactive Systems	6	G2X	3	E
TDDD95	Algorithmic Problem Solving	6*	A1X	1	E
TDDD97	Web Programming	6	G2X	3	E
TDDE05	AI Robotics	6*	A1N	4	E
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	E
TGTU94	Technology and Ethics	6	G1X	1	E
THFR05	Communicative French	6*	G1X	4	E
THSP05	Spanish	6*	G1X	4	E
THTY05	German	6*	G1X	4	E
TKMJ15	Environmental Management Strategies	6	G1F	3	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
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
Period 2					



Course code	Course name	Credits	Level	Timetable module	ECV
TAOP87	Applied Optimization Project Course	6	A1X	3	E
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	E
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	E
TDDD27	Advanced Web Programming	6	A1N	3	E
TDDD38	Advanced Programming in C++	6*	A1X	-	E
TDDD48	Automated Planning	6	A1X	1	E
TDDD95	Algorithmic Problem Solving	6*	A1X	4	E
TDDE05	Al Robotics	6*	A1N	4	E
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	E
TDDE34	Software Verification	6	A1X	1	E
TDDE41	Software Architectures	6	A1X	1	E
TDDE46	Software Quality	6*	A1N	2	E
TDTS21	Advanced Networking	6*	A1X	1	E
TEAE13	Civil and Commercial Law	6	G1X	2	E
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
THFR05	Communicative French	6*	G1X	4	E
THSP05	Spanish	6*	G1X	4	E



Course code	Course name	Credits	Level	Timetable module	ECV
THTY05	German	6*	G1X	4	E
TNM079	Modelling and Animation	6	A1X	2	E
TSBB15	Computer Vision	12*	A1X	3	E
TSBK02	Image and Audio Coding	6	A1X	4	E
TSBK07	Computer Graphics	6*	A1X	1	E
TSEK06	VLSI Design	12*	A1X	4	E
TSFS06	Diagnosis and Supervision	6	A1N	1	E
TSKS14	Multiple Antenna Communications	6	A1X	3	E
TSKS16	Signal Processing for Communications	6	A1N	1	E
TSRT14	Sensor Fusion	6	A1N	2	E
TSTE06	Digital Filters	6	A1X	3	E
TSTE87	Application-Specific Integrated Circuits	6	A1X	2	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	E
TDDD20	Design and Analysis of Algorithms	6	A1X	3	E
TDDD41	Data Mining - Clustering and Association Analysis	6	A1X	3	E
TDDD95	Algorithmic Problem Solving	6*	A1X	1	E
TDDE05	AI 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	AI 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



Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TSRT07	Industrial Control Systems	6	A1N	2	С
TDDE05	AI Robotics	6*	A1N	4	E
TSBB15	Computer Vision	12*	A1X	1	E
TSRT09	Control Theory	6	A1N	3	E
Period 2					
TDDE05	AI 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: Autonomous Systems

Specialisation: Communication

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TBMI26	Neural Networks and Learning Systems	6	A1X	2	E
TDTS21	Advanced Networking	6*	A1X	1	E
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



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 Games Programming

Specialisation: Computer Systems Architecture

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDDA69	Data and Program Structures	6*	G2X	3	E
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	E
TDDD27	Advanced Web Programming	6	A1N	3	E
TDDD38	Advanced Programming in C++	6*	A1X	-	Е
TDDE34	Software Verification	6	A1X	1	E
TDDE41	Software Architectures	6	A1X	1	E
TDTS21	Advanced Networking	6*	A1X	1	E



Specialisation: Electronics

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TSEK06	VLSI Design	12*	A1X	4	E
TSEK38	Radio Frequency Transceiver Design	6	A1X	2	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	E
Period 2					
TSTE87	Application-Specific Integrated Circuits	6	A1X	2	С
TSEK06	VLSI Design	12*	A1X	4	E
TSKS16	Signal Processing for Communications	6	A1N	1	E
TSTE06	Digital Filters	6	A1X	3	E
TSTE93	Analog Circuits	6*	G2X	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	E
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	E
TDDE46	Software Quality	6*	A1N	2	E



Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
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
TDDD17	Information Security, Second Course	6*	A1X	4	E
Period 2					
TBMT26	Technology in Intensive Care and Surgery	6	A1X	1	E
TDDD17	Information Security, Second Course	6*	A1X	4	E
TDDE31	Big Data Analytics	6	A1X	3	E
TEIO95	eHealth: Innovation and Entrepreneurship	6	G2F	2/4	E

Specialisation: Medical Informatics

	Specialisation: Programming and Algorithms						
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	E		
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: Programming and Algorithms



Course name	Credits	Level	Timetable module	ECV
Information Security, Second Course	6*	A1X	4	С
Advanced Programming in C++	6*	A1X	2	E
Web Programming	6	G2X	3	E
Software Quality	6*	A1N	2	E
Advanced Networking	6*	A1X	1	E
Information Security, Second Course	6*	A1X	4	С
Advanced Web Programming	6	A1N	3	E
Advanced Programming in C++	6*	A1X	-	E
Software Quality	6*	A1N	2	E
Advanced Networking	6*	A1X	1	E
	Information Security, Second Course Advanced Programming in C++ Web Programming Software Quality Advanced Networking Information Security, Second Course Advanced Web Programming Advanced Programming in C++ Software Quality	Information Security, Second Course6*Advanced Programming in C++6*Web Programming6Software Quality6*Advanced Networking6*Information Security, Second Course6*Advanced Web Programming6Advanced Programming in C++6*Software Quality6*	Information Security, Second Course6*A1XAdvanced Programming in C++6*A1XWeb Programming6G2XSoftware Quality6*A1NAdvanced Networking6*A1XInformation Security, Second Course6*A1XAdvanced Web Programming6A1NAdvanced Programming in C++6*A1XSoftware Quality6*A1N	Course nameCreditsLevelmoduleInformation Security, Second Course6*A1X4Advanced Programming in C++6*A1X2Web Programming6G2X3Software Quality6*A1N2Advanced Networking6*A1X1Information Security, Second Course6*A1X4Advanced Networking6*A1X1Information Security, Second Course6*A1X4Advanced Web Programming in C++6*A1X-Software Quality6*A1X2

Specialisation: Secure Systems

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	E
TBMT02	Medical Imaging	6	A1F	3	E
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



Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDTS07	System Design and Methodology	6	A1X	1	С
TSBK07	Computer Graphics	6*	A1X	4	E
TSEK06	VLSI Design	12*	A1X	4	E
TSTE08	Analog and Discrete-Time Integrated Circuits	6	A1X	3	E
Period 2					
TEIE44	Intellectual Property Rights	4	G1X	1	E
TSBK07	Computer Graphics	6*	A1X	1	E
TSEK06	VLSI Design	12*	A1X	4	E
TSKS16	Signal Processing for Communications	6	A1N	1	E
TSTE06	Digital Filters	6	A1X	3	E
TSTE87	Application-Specific Integrated Circuits	6	A1X	2	E

Specialisation: System-on-chip

Semester 9 (Autumn 2020)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TANA21	Scientific Computing	6	G1X	3	C/E
TAMS39	Multivariate Statistical Methods	6	A1X	4	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 - AI 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
TDTS06	Computer Networks	6	G2X	1	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	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
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	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
TSRT10	Automatic Control - Project Course	12*	A1F	4	E
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
TBMI02	Medical Image Analysis	6	A1N	1	E
TBMI28	eHealth Project	12*	A1X	-	E
TBMT14	Biomedical Engineering - Project Course	12*	A1X	4	E
TDDB44	Compiler Construction	6	A1X	1	E



Course code	Course name	Credits	Level	Timetable module	ECV
TDDC90	Software Security	6	A1X	1	E
TDDD07	Real Time Systems	6	A1X	4	E
TDDD43	Advanced Data Models and Databases	6*	A1X	2	E
TDDD56	Multicore and GPU Programming	6	A1X	2	E
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 - AI 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	E
TSBB11	Images and Graphics, Project Course CDIO	12*	A1X	4	E
TSBK03	Advanced Game Programming	6*	A1X	-	E
TSEA26	Design of Embedded DSP Processor	6	A1X	2	E
TSEA44	Computer Hardware - a System on Chip	6	A1F	1	E
TSEA84	Digital Design Project	6*	A1X	3	E
TSIN02	Internetworking	6	A1N	1	E
TSKS23	Project Course in Signal Processing, Communications and Networking, CDIO	12*	A1X	4	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



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: AI and Machine Learning

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



Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TSIN01	Information Networks	6	A1X	3	С
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: Communication

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

Specialisation: Computer Games Programming



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: Computer Systems Architecture



Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TSEA84	Digital Design Project	6*	A1X	3	Е
TSEK03	Radio Frequency Integrated Circuits	6	A1X	2	Е
TSEK11	Evaluation of an Integrated Circuit	2	A1X	4	E
TSTE17	System Design	12*	A1F	4	E
TSTE25	Power Electronics	6	A1X	3	E
Period 2					
TSEA26	Design of Embedded DSP Processor	6	A1X	2	E
TSEA44	Computer Hardware - a System on Chip	6	A1F	1	E
TSEA84	Digital Design Project	6*	A1X	3	Е
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: 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



Period 1TDDC34Technical, Economic and Societal Evaluation of IT-products6A1X3CTDDD69Software Engineering - Company Project6*A1N1CTDDD04Software Testing6A1X2ETDDD38Advanced Programming in C++6*A1X2ETDDD43Advanced Data Models and Databases6*A1X2ETDDE45Software Design and Construction6A1X4ETDE113Enterprise Resource Planning Systems: Process and Implementation6A1X2EPeriod 2TDDC90Software Engineering - Company Project6*A1N1CTDDD07Real Time Systems6A1X4ETDDD07Real Time Systems6A1X4ETDDD38Advanced Programming in C++6*A1X2ETDDD07Real Time Systems6A1X4ETDDD38Advanced Programming in C++6*A1X2ETDDD43Advanced Data Models and Databases6*A1X2ETDDD43Advanced Data Models and Databases6*A1X2ETDDD43Advanced Data Models and Databases6*A1X2ETDDD43Advanced Data Models and Databases6*A1X2ETDE119Management Control6A1X2ETEIM03Intercultural Communication </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
IDDC34IT-products6AIX3CTDDD69Software Engineering - Company Project6*AIN1CTDDD04Software Testing6AIX2ETDDD38Advanced Programming in C++6*AIX2ETDDD43Advanced Data Models and Databases6*AIX2ETDDE45Software Design and Construction6AIX4ETDE113Enterprise Resource Planning Systems: Process and Implementation6AIX2EPeriod 2 </th <th>Period 1</th> <th></th> <th></th> <th></th> <th></th> <th></th>	Period 1					
TDDD04Software Testing6A1X2ETDDD38Advanced Programming in C++6*A1X2ETDDD43Advanced Data Models and Databases6*A1X2ETDDE45Software Design and Construction6A1X4ETDE113Enterprise Resource Planning Systems: Process and Implementation6A1X2EPeriod 2 </td <td>TDDC34</td> <td></td> <td>6</td> <td>A1X</td> <td>3</td> <td>С</td>	TDDC34		6	A1X	3	С
TDDD38Advanced Programming in C++6*A1X2ETDDD43Advanced Data Models and Databases6*A1X2ETDDE45Software Design and Construction6A1X4ETDE13Enterprise Resource Planning Systems: Process and Implementation6A1X2EPeriod 2TDDD69Software Engineering - Company Project6*A1N1CTDDD07Real Time Systems6A1X4ETDDD38Advanced Programming in C++6*A1X4ETDDD43Advanced Data Models and Databases6*A1X2ETDDD43Advanced Data Models and Databases6*A1X2ETDDD43Advanced Data Models and Databases6*A1X2ETDDD43Advanced Data Models and Databases6*A1X2ETDE19Management Control6A1X2E	TDDD69	Software Engineering - Company Project	6*	A1N	1	С
TDDD43Advanced Data Models and Databases6*A1X2ETDDD43Advanced Data Models and Databases6*A1X2ETDE45Software Design and Construction6A1X4ETDE113Enterprise Resource Planning Systems: Process and Implementation6A1X2EPeriod 2TDDD69Software Engineering - Company Project6*A1N1CTDDC90Software Security6A1X1ETDDD07Real Time Systems6A1X4ETDDD38Advanced Programming in C++6*A1X2ETDDD43Advanced Data Models and Databases6*A1X2ETDE119Management Control6A1X2E	TDDD04	Software Testing	6	A1X	2	E
TDDE45Software Design and Construction6A1X4ETDE13Enterprise Resource Planning Systems: Process and Implementation6A1X2EPeriod 2TDDD69Software Engineering - Company Project6*A1N1CTDDC90Software Security6A1X1ETDDD07Real Time Systems6A1X4ETDDD38Advanced Programming in C++6*A1X2ETDDD43Advanced Data Models and Databases6*A1X2ETDE119Management Control6A1X2E	TDDD38	Advanced Programming in C++	6*	A1X	2	E
TDEI13Enterprise Resource Planning Systems: Process and Implementation6A1X2EPeriod 2TDDD69Software Engineering - Company Project6*A1N1CTDDC90Software Security6A1X1ETDDD07Real Time Systems6A1X4ETDDD38Advanced Programming in C++6*A1X-ETDDD43Advanced Data Models and Databases6*A1X2ETDEI19Management Control6A1X2E	TDDD43	Advanced Data Models and Databases	6*	A1X	2	E
IDEI13and Implementation6A1X2EPeriod 2TDDD69Software Engineering - Company Project6*A1N1CTDDC90Software Security6A1X1ETDDD07Real Time Systems6A1X4ETDDD38Advanced Programming in C++6*A1X-ETDDD43Advanced Data Models and Databases6*A1X2ETDEI19Management Control6A1X2E	TDDE45	Software Design and Construction	6	A1X	4	E
TDDD69Software Engineering - Company Project6*A1N1CTDDC90Software Security6A1X1ETDDD07Real Time Systems6A1X4ETDDD38Advanced Programming in C++6*A1X-ETDDD43Advanced Data Models and Databases6*A1X2ETDEI19Management Control6A1X2E	TDEI13		6	A1X	2	E
TDDC90Software Security6A1X1ETDDD07Real Time Systems6A1X4ETDDD38Advanced Programming in C++6*A1X-ETDDD43Advanced Data Models and Databases6*A1X2ETDE119Management Control6A1X2E	Period 2					
TDDD07Real Time Systems6A1X4ETDDD38Advanced Programming in C++6*A1X-ETDDD43Advanced Data Models and Databases6*A1X2ETDEI19Management Control6A1X2E	TDDD69	Software Engineering - Company Project	6*	A1N	1	С
TDDD38Advanced Programming in C++6*A1X-ETDDD43Advanced Data Models and Databases6*A1X2ETDEI19Management Control6A1X2E	TDDC90	Software Security	6	A1X	1	E
TDDD43Advanced Data Models and Databases6*A1X2ETDEI19Management Control6A1X2E	TDDD07	Real Time Systems	6	A1X	4	E
TDEI19Management Control6A1X2E	TDDD38	Advanced Programming in C++	6*	A1X	-	E
	TDDD43	Advanced Data Models and Databases	6*	A1X	2	E
TEIM03 Intercultural Communication 4 G1X 4 E	TDEI19	Management Control	6	A1X	2	E
	TEIM03	Intercultural Communication	4	G1X	4	E

Specialisation: International Software Engineering

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



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: Medical Informatics

Specialisation: Programming and Algorithms

		Level	module	ECV
ogic Programming	6	A1X	4	E
oftware Design and Construction	6	A1X	4	E
ryptology	6	A1X	2	E
ompiler Construction	6	A1X	1	E
Iulticore and GPU Programming	6	A1X	2	E
r	offware Design and Construction yptology ompiler Construction	offtware Design and Construction 6 yptology 6 ompiler Construction 6	offtware Design and Construction 6 A1X yptology 6 A1X ompiler Construction 6 A1X	of the rest o



Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDDD04	Software Testing	6	A1X	2	С
TDDE45	Software Design and Construction	6	A1X	4	С
TDDD38	Advanced Programming in C++	6*	A1X	2	E
TDDE21	Advanced Project Course: Secure Distributed and Embedded Systems	6*	A1X	4	E
TSIT03	Cryptology	6	A1X	2	E
Period 2					
TDDC90	Software Security	6	A1X	1	С
TDDD37	Database Technology	6	G2X	1	E
TDDD38	Advanced Programming in C++	6*	A1X	-	E
TDDE21	Advanced Project Course: Secure Distributed and Embedded Systems	6*	A1X	4	E

Specialisation: Secure Systems

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



Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDTS08	Advanced Computer Architecture	6	A1X	2	Е
TSEA84	Digital Design Project	6*	A1X	3	E
TSEK11	Evaluation of an Integrated Circuit	2	A1X	4	Е
TSTE17	System Design	12*	A1F	4	Е
Period 2					
TSEA26	Design of Embedded DSP Processor	6	A1X	2	С
TDDB44	Compiler Construction	6	A1X	1	Е
TDDD56	Multicore and GPU Programming	6	A1X	2	E
TSEA44	Computer Hardware - a System on Chip	6	A1F	1	E
TSEA84	Digital Design Project	6*	A1X	3	Е
TSIT02	Computer Security	6	G2F	2	E
TSTE17	System Design	12*	A1F	4	E
TSTE85	Low Power Electronics	6	A1N	2	E

Specialisation: System-on-chip

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

