

Computer Science and Engineering, M Sc in Engineering

300 credits

Civilingenjör i datateknik

6CDDD

Valid from:

Determined by

Date determined

Entry requirements

Degree in Swedish

Civilingenjör 300 hp och Teknologie master 120 hp



Curriculum

Semester 8 (Spring 2017)

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	2	Е
TATA64	Graph Theory	6*	A1X	2	E
TBMI26	Neural Networks and Learning Systems	6	A1X	2	Е
TBMT02	Medical Imaging	6	A1F	3	E
ТВМТ09	Physiological Pressures and Flows	6	A1X	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
TDDD25	Distributed Systems	6	A1X	2	E
TDDD38	Advanced Programming in C++	6*	A1X	2	Е
TDDD41	Data Mining - Clustering and Association Analysis	6	A1X	3	E
TDDD50	Green Computing	4	G2X	4	Е
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	Al Robotics	6*	A1X	4	Е
TDDE06	Large-Scale Software Development - Structures and Processes	6*	A1X	4	E
TDDE09	Natural Language Processing	6	A1X	2	Е
TDTS07	System Design and Methodology	6	A1X	1	Е
TEIE88	Computer Law	4	G1X	1	E
TEIO20	Entrepreneurship and New Business Development	6*	G2X	4	E
TGTU01	Technology and Ethics	6	G1X	1	Е



Course code	Course name	Credits	Level	Timetable module	ECV
THFR05	Communicative French	6*	G1X	4	Е
THSP05	Spanish	6*	G1X	4	Е
THTY05	German	6*	G1X	4	Е
TKMJ15	Environmental Management Strategies	6	G1X	3	Е
TNM048	Information Visualisation	6	A1X	3	Е
TSBB15	Computer Vision	12*	A1X	1	E
TSBK07	Computer Graphics	6*	A1X	4	E
TSBK08	Data Compression	6	A1X	2	E
TSEK03	Radio Frequency Integrated Circuits	6	A1X	2	E
TSEK06	VLSI Design	12*	A1X	4	E
TSFS04	Electrical Drives	6	G2X	4	E
TSKS13	Wireless Communications	6	A1F	4	E
TSRT07	Industrial Control Systems	6	A1X	2	E
TSRT09	Control Theory	6	A1X	3	E
TSTE08	Analog and Discrete-Time Integrated Circuits	6	A1X	3	E
TSTE14	Analog Filters	6	A1X	2	E
Period 2					
TATA53	Linear Algebra, Honours Course	6*	G2X	-	E
TATA64	Graph Theory	6*	A1X	2	E
TBME08	Biomedical Modeling and Simulation	6	A1X	3	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
TDDD05	Component Based Software	6	A1X	1	E
TDDD14	Formal Languages and Automata Theory	6	G2X	2	Е
TDDD17	Information Security, Second Course	6*	A1X	4	E
TDDD27	Advanced Web Programming	6	A1X	3	E
TDDD29	IT-Project Management	6	A1X	3	Е
TDDD38	Advanced Programming in C++	6*	A1X	-	Е
TDDD48	Automated Planning	6	A1X	1	Е
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Course code	Course name	Credits	Level	Timetable module	ECV
TDDD95	Algorithmic Problem Solving	6*	A1X	4	Е
TDDE05	Al Robotics	6*	A1X	4	E
TDDE06	Large-Scale Software Development - Structures and Processes	6*	A1X	4	E
TDDE07	Bayesian Learning	6	A1X	2	E
TDEI35	Strategy and Management Control	6	A1X	2	E
TEIE44	Intellectual Property Rights	4	G1X	1	E
TEIE95	Civil and Commercial Law	4	G1X	2	E
TEIO20	Entrepreneurship and New Business Development	6*	G2X	4	E
TGTU76	Philosophy of Science	6	G1X	4	E
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	E
TSBB15	Computer Vision	12*	A1X	3	E
TSBK02	Image and Audio Coding	6	A1X	4	Е
TSBK07	Computer Graphics	6*	A1X	1	Е
TSEK06	VLSI Design	12*	A1X	4	E
TSFS06	Diagnosis and Supervision	6	A1N	1	E
TSKS14	Multiple Antenna Communications	6	A1X	2	E
TSRT14	Sensor Fusion	6	A1X	2	Е
TSTE06	Digital Filters	6	A1X	3	Е
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	Е
TDDD41	Data Mining - Clustering and Association Analysis	6	A1X	3	E
TDDD95	Algorithmic Problem Solving	6*	A1X	1	Е
TDDE05	Al Robotics	6*	A1X	4	Е
TDDE09	Natural Language Processing	6	A1X	2	Е
TSRT07	Industrial Control Systems	6	A1X	2	Е
Period 2					
TDDD48	Automated Planning	6	A1X	1	Е
TDDD95	Algorithmic Problem Solving	6*	A1X	4	Е
TDDE05	Al Robotics	6*	A1X	4	Е
TDDE07	Bayesian Learning	6	A1X	2	E
TSFS06	Diagnosis and Supervision	6	A1N	1	Е
TSRT14	Sensor Fusion	6	A1X	2	Е

Specialisation: Biomedical Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
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
ТВМТ09	Physiological Pressures and Flows	6	A1X	1	E
Period 2					
TBME08	Biomedical Modeling and Simulation	6	A1X	3	E
TBMT26	Technology in Intensive Care and Surgery	6	A1X	1	E



Specialisation: Communication

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TSBK08	Data Compression	6	A1X	2	E
TSEK03	Radio Frequency Integrated Circuits	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: 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	Е
Period 2					
TSBK07	Computer Graphics	6*	A1X	1	С
TNM079	Modelling and Animation	6	A1X	2	Е



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	Е
TDDD38	Advanced Programming in C++	6*	A1X	2	Е
TDDD97	Web Programming	6	G2X	3	Е
TDTS07	System Design and Methodology	6	A1X	1	Е
Period 2					
TDDA69	Data and Program Structures	6*	G2X	1	Е
TDDC78	Programming of Parallel Computers - Methods and Tools	6	A1X	3	E
TDDD05	Component Based Software	6	A1X	1	Е
TDDD14	Formal Languages and Automata Theory	6	G2X	2	Е
TDDD27	Advanced Web Programming	6	A1X	3	E
TDDD38	Advanced Programming in C++	6*	A1X	-	E

Specialisation: Electronics

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TSTE08	Analog and Discrete-Time Integrated Circuits	6	A1X	3	С
TSEK03	Radio Frequency Integrated Circuits	6	A1X	2	E
TSEK06	VLSI Design	12*	A1X	4	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
TSTE06	Digital Filters	6	A1X	3	E
TSTE93	Analog Circuits	6*	G2X	1	E



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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
Period 2					
TDDD05	Component Based Software	6	A1X	1	E
TDDE06	Large-Scale Software Development - Structures and Processes	6*	A1X	4	E

$Specialisation: Programming\ and\ Algorithms$

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDDA69	Data and Program Structures	6*	G2X	3	E
TDDD38	Advanced Programming in C++	6*	A1X	2	Е
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
TDDD05	Component Based Software	6	A1X	1	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



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	E
TDDD97	Web Programming	6	G2X	3	Е
Period 2					
TDDD17	Information Security, Second Course	6*	A1X	4	С
TDDD27	Advanced Web Programming	6	A1X	3	Е
TDDD38	Advanced Programming in C++	6*	A1X	-	E

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
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	A1X	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	A1X	2	E



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Specialisation: System-on-Chip

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDTS07	System Design and Methodology	6	A1X	1	С
TSEK03	Radio Frequency Integrated Circuits	6	A1X	2	E
TSEK06	VLSI Design	12*	A1X	4	E
TSTE08	Analog and Discrete-Time Integrated Circuits	6	A1X	3	E
TSTE14	Analog Filters	6	A1X	2	E
Period 2					
TEIE44	Intellectual Property Rights	4	G1X	1	E
TSEK06	VLSI Design	12*	A1X	4	E
TSTE06	Digital Filters	6	A1X	3	E
TSTE87	Application-Specific Integrated Circuits	6	A1X	2	Е

Specialisation: Systems Technology

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDTS07	System Design and Methodology	6	A1X	1	С
TDDD25	Distributed Systems	6	A1X	2	C/E
TSBK08	Data Compression	6	A1X	2	C/E
TSRT07	Industrial Control Systems	6	A1X	2	C/E
TBMI26	Neural Networks and Learning Systems	6	A1X	2	E
Period 2					
TDDD05	Component Based Software	6	A1X	1	C/E
TSFS06	Diagnosis and Supervision	6	A1N	1	C/E

Semester 9 (Autumn 2017)

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
TBMT14	Biomedical Engineering - Project Course	12*	A1X	4	E



TBMT36 Biomedical Optics 6 A1X 1 E TDDD43 Advanced Data Models and Databases 6* A1X 2 E TDDE14 Large-Scale Software Development: Contributions and Evolution TDDE15 Advanced Machine Learning 6 A1X 1 E TDDE19 Advanced Project Course - Al and Machine Learning 6* A1X 4 E TDDE10 Advanced Project Course - Game, App and Web Development 6* A1X 4 E TDDE20 Advanced Project Course: Secure Distributed and Embedded Systems TDDE21 Advanced Project Course: Secure Distributed and Embedded Systems Enterprise Resource Planning Systems: Process and Implementation TDTS06 Computer Networks 6 G2X 1 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 1 E TSEK26 Design of Embedded DSP Processor 6 A1X 1 E TSEK21 Evaluation of an Integrated Circuit 2 A1X 4 E TSEK38 Radio Frequency Transceiver Design 6 A1X 2 E TSEK38 Radio Frequency Transceiver Design 6 A1X 2 E TSKS05 Communication Systems, Project Course 12* A1X 4 E TSKS05 Communication Systems, Project Course 12* A1X 4 E TSKS12 Modern Channel Coding, Inference and Learning 12* A1X 4 E TSET17 System Design 12* A1X 4 E TSTE18 Digital Arithmetics 6* A1X 3 E TSTE18 Digital Arithmetics 6* A1X 3 E TSTE18 Digital Arithmetics 6* A1X 3 E TSTE125 Power Electronics 6 A1X 3 E TSTE125 Power Electronics 6 A1X 3 E TDDD89 Scientific Method 6 A1X 3 C TANA09 Numerical Algorithms in Computer Science 4 G2X 1 C/E	Course code	Course name	Credits	Level	Timetable module	ECV
TDDE14 Large-Scale Software Development: Contributions and Evolution TDDE15 Advanced Machine Learning 6 A1X 1 E TDDE19 Advanced Project Course - Al and Machine Learning 6 A1X 4 E TDDE19 Advanced Project Course - Game, App and Web Development Advanced Project Course: Secure Distributed and Embedded Systems TDE21 Advanced Project Course: Secure Distributed and Embedded Systems TDE113 Enterprise Resource Planning Systems: Process and Implementation TDTS06 Computer Networks 6 G2X 1 E TNCG15 Advanced Global Illumination and Rendering 6 A1X 4 E TNM067 Scientific Visualization 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 TSEA26 Design of Embedded DSP Processor 6 A1X 1 E TSEX11 Evaluation of an Integrated Circuit 2 A1X 4 E TSEX12 Modern Channel Coding, Inference and Learning 1SRT10 Automatic Control - Project Course 12* A1X 4 E TSET17 System Design 12* A1X 4 E TSET18 Digital Arithmetics 6 A1X 3 E TSTE15 Power Electronics 6 A1X 3 E TSTE25 Power Electronics 6 A1X 3 E TDDD89 Scientific Method 6 A1X 3 E TDDD89 Scientific Method 6 A1X 3 C	ТВМТ36	Biomedical Optics	6	A1X	1	Е
TDDE15 Advanced Machine Learning 6 A1X 1 E TDDE19 Advanced Project Course - Al and Machine Learning 6 A1X 4 E TDDE19 Advanced Project Course - Game, App and Web Development 6* A1X 4 E TDDE20 Advanced Project Course: Secure Distributed and Embedded Systems TDDE21 Advanced Project Course: Secure Distributed and Implementation 6* A1X 4 E TDDE113 Enterprise Resource Planning Systems: Process and Implementation 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 TSEA26 Design of Embedded DSP Processor 6 A1X 1 E TSEX12 Evaluation of an Integrated Circuit 2 A1X 4 E TSEX13 Radio Frequency Transceiver Design 6 A1X 2 E TSIN01 Information Networks 6 A1X 3 E TSKS05 Communication Systems, Project Course 12* A1X 4 E TSKS12 Modern Channel Coding, Inference and Learning 6 A1X 1 E TSET17 System Design 12* A1X 4 E TSTE18 Digital Arithmetics 6* A1X 3 E TSTE19 Ower Electronics 6 A1X 3 E TSTE25 Power Electronics 6 A1X 3 E	TDDD43	Advanced Data Models and Databases	6*	A1X	2	Е
TDDE19 Advanced Project Course - Al and Machine Learning 6* A1X 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 TDE113 Enterprise Resource Planning Systems: Process and Implementation 6* A1X 2 E TDTS06 Computer Networks 6 G2X 1 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 TSEA26 Design of Embedded DSP Processor 6 A1X 1 E TSEK11 Evaluation of an Integrated Circuit 2 A1X 4 E TSEK38 Radio Frequency Transceiver Design 6 A1X 2 E TSIN01 Information Networks 6 A1X 3 E TSKS05 Communication Systems, Project Course 12* A1X 4 E TSKS12 Modern Channel Coding, Inference and Learning 12* A1X 4 E TSRT10 Automatic Control - Project Course 12* A1X 4 E TSTE17 System Design 12* A1X 4 E TSTE18 Digital Arithmetics 6* A1X 3 E TSTE25 Power Electronics 6 A1X 3 E TSTE25 Power Electronics 6 A1X 3 E TDDD89 Scientific Method 6 A1X 3 C	TDDE14	•	6*	A1X	4	E
TDDE20 Advanced Project Course - Game, App and Web Development TDDE21 Advanced Project Course: Secure Distributed and Embedded Systems TDE113 Enterprise Resource Planning Systems: Process and Implementation TDTS06 Computer Networks TNCG15 Advanced Global Illumination and Rendering TNM067 Scientific Visualization TNM095 Artificial Intelligence for Interactive Media TSB811 Images and Graphics, Project Course CDIO TSB803 Advanced Game Programming TSEA26 Design of Embedded DSP Processor TSEK11 Evaluation of an Integrated Circuit TSEK38 Radio Frequency Transceiver Design TSKS12 Modern Channel Coding, Inference and Learning TSRT10 Automatic Control - Project Course TSTE12 System Design TSTE13 Digital Arithmetics 6 A1X 3 E TSTE25 Power Electronics 6 A1X 3 E TSTE25 Power Electronics 6 A1X 3 E TSTE20 Communication Systems, Project Course 6 A1X 1 E TSTE12 Digital Arithmetics 6 A1X 3 E TSTE12 Power Electronics 6 A1X 3 E TSTE25 Power Electronics 6 A1X 3 E TSTE25 Power Electronics 6 A1X 3 E TDDD89 Scientific Method 6 A1X 3 C	TDDE15	Advanced Machine Learning	6	A1X	1	E
TDDE21 Advanced Project Course: Secure Distributed and Embedded Systems TDEI13 Enterprise Resource Planning Systems: Process and Implementation TDTS06 Computer Networks TNCG15 Advanced Global Illumination and Rendering TNM067 Scientific Visualization TNM095 Artificial Intelligence for Interactive Media TSBB11 Images and Graphics, Project Course CDIO TSBB17 Visual Object Recognition and Detection TSBK03 Advanced Game Programming TSEA26 Design of Embedded DSP Processor TSEK11 Evaluation of an Integrated Circuit TSEK38 Radio Frequency Transceiver Design TSKS05 Communication Systems, Project Course TSKS12 Modern Channel Coding, Inference and Learning TSRT10 Automatic Control - Project Course TSTE18 Digital Arithmetics TSTE28 Power Electronics 6 A1X 3 E TSTE25 Power Electronics 6 A1X 3 E TSTE20 Control Course TSTE20 Control Course TSTE20 Course Course TSTE20 Course Course TSTE20 Course Course TSTE218 Digital Arithmetics TSTE25 Power Electronics 6 A1X 3 E TSTE25 Power Electronics 6 A1X 3 E TSTE25 Power Electronics 6 A1X 3 E TSTE25 Coentific Method 6 A1X 3 C	TDDE19	•	6*	A1X	4	E
TDEL13 and Embedded Systems TDEI13 Enterprise Resource Planning Systems: Process and Implementation TDTS06 Computer Networks 6 G2X 1 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 TSEA26 Design of Embedded DSP Processor 6 A1X 1 E TSEK11 Evaluation of an Integrated Circuit 2 A1X 4 E TSEK38 Radio Frequency Transceiver Design 6 A1X 2 E TSINO1 Information Networks 6 A1X 3 E TSKS05 Communication Systems, Project Course 12* A1X 4 E TSKS12 Modern Channel Coding, Inference and Learning 6 A1X 1 E TSTE17 System Design 12* A1X 4 E TSTE18 Digital Arithmetics 6* A1X 3 E TSTE25 Power Electronics 6 A1X 3 E TSTE25 Power Electronics 6 A1X 3 E TDDD89 Scientific Method 6 A1X 3 C	TDDE20		6*	A1X	4	E
TDTS06 Computer Networks 6 G2X 1 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 TSEA26 Design of Embedded DSP Processor 6 A1X 1 E TSEK11 Evaluation of an Integrated Circuit 2 A1X 4 E TSEK38 Radio Frequency Transceiver Design 6 A1X 2 E TSIN01 Information Networks 6 A1X 3 E TSKS05 Communication Systems, Project Course 12* A1X 4 E TSKS12 Modern Channel Coding, Inference and Learning 6 A1X 1 E TSTE17 System Design 12* A1X 4 E TSTE18 Digital Arithmetics 6* A1X 3 E TSTE25 Power Electronics 6 A1X 3 E TSTE25 Power Electronics 6 A1X 3 E TDDD89 Scientific Method 6 A1X 3 C	TDDE21	•	6*	A1X	4	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 TSEA26 Design of Embedded DSP Processor 6 A1X 1 E TSEK11 Evaluation of an Integrated Circuit 2 A1X 4 E TSEK38 Radio Frequency Transceiver Design 6 A1X 2 E TSIN01 Information Networks 6 A1X 3 E TSKS05 Communication Systems, Project Course 12* A1X 4 E TSKS12 Modern Channel Coding, Inference and Learning 6 A1X 1 E TSRT10 Automatic Control - Project Course 12* A1X 4 E TSTE17 System Design 12* A1X 4 E TSTE18 Digital Arithmetics 6* A1X 3 E TSTE25 Power Electronics 6 A1X 3 E TSTE25 Power Electronics 6 A1X 3 E TDDD89 Scientific Method 6 A1X 3 C	TDEI13	·	6	A1X	2	Е
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 TSEA26 Design of Embedded DSP Processor 6 A1X 1 E TSEK11 Evaluation of an Integrated Circuit 2 A1X 4 E TSEK38 Radio Frequency Transceiver Design 6 A1X 2 E TSIN01 Information Networks 6 A1X 3 E TSKS05 Communication Systems, Project Course 12* A1X 4 E TSKS12 Modern Channel Coding, Inference and Learning 6 A1X 1 E TSRT10 Automatic Control - Project Course 12* A1X 4 E TSTE17 System Design 12* A1X 4 E TSTE18 Digital Arithmetics 6* A1X 3 E TSTE25 Power Electronics 6 A1X 3 E Period 2 TDDD89 Scientific Method 6 A1X 3 C	TDTS06	Computer Networks	6	G2X	1	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 TSEA26 Design of Embedded DSP Processor 6 A1X 1 E TSEK11 Evaluation of an Integrated Circuit 2 A1X 4 E TSEK38 Radio Frequency Transceiver Design 6 A1X 2 E TSIN01 Information Networks 6 A1X 3 E TSKS05 Communication Systems, Project Course 12* A1X 4 E TSKS12 Modern Channel Coding, Inference and Learning 6 A1X 1 E TSRT10 Automatic Control - Project Course 12* A1X 4 E TSTE17 System Design 12* A1X 4 E TSTE18 Digital Arithmetics 6* A1X 3 E TSTE25 Power Electronics 6 A1X 3 E Period 2 TDDD89 Scientific Method 6 A1X 3 C	TNCG15	Advanced Global Illumination and Rendering	6	A1X	4	Е
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 TSEA26 Design of Embedded DSP Processor 6 A1X 1 E TSEK11 Evaluation of an Integrated Circuit 2 A1X 4 E TSEK38 Radio Frequency Transceiver Design 6 A1X 2 E TSIN01 Information Networks 6 A1X 3 E TSKS05 Communication Systems, Project Course 12* A1X 4 E TSKS12 Modern Channel Coding, Inference and Learning 6 A1X 1 E TSTE17 System Design 12* A1X 4 E TSTE18 Digital Arithmetics 6* A1X 3 E TSTE25 Power Electronics 6 A1X 3 E Period 2 TDDD89 Scientific Method 6 A1X 3 C	TNM067	Scientific Visualization	6	A1X	3	E
TSBB17 Visual Object Recognition and Detection 6 A1X 2 E TSBK03 Advanced Game Programming 6* A1X 1 E TSEA26 Design of Embedded DSP Processor 6 A1X 1 E TSEK11 Evaluation of an Integrated Circuit 2 A1X 4 E TSEK38 Radio Frequency Transceiver Design 6 A1X 2 E TSIN01 Information Networks 6 A1X 3 E TSKS05 Communication Systems, Project Course 12* A1X 4 E TSKS12 Modern Channel Coding, Inference and Learning 6 A1X 1 E TSTE10 Automatic Control - Project Course 12* A1X 4 E TSTE17 System Design 12* A1X 4 E TSTE18 Digital Arithmetics 6* A1X 3 E TSTE25 Power Electronics 6 A1X 3 E Period 2 TDDD89 Scientific Method 6 A1X 3 C	TNM095	Artificial Intelligence for Interactive Media	6	A1X	2	E
TSBK03 Advanced Game Programming 6* A1X 1 E TSEA26 Design of Embedded DSP Processor 6 A1X 1 E TSEK11 Evaluation of an Integrated Circuit 2 A1X 4 E TSEK38 Radio Frequency Transceiver Design 6 A1X 2 E TSIN01 Information Networks 6 A1X 3 E TSKS05 Communication Systems, Project Course 12* A1X 4 E TSKS12 Modern Channel Coding, Inference and Learning 6 A1X 1 E TSRT10 Automatic Control - Project Course 12* A1X 4 E TSTE17 System Design 12* A1F 4 E TSTE18 Digital Arithmetics 6* A1X 3 E TSTE25 Power Electronics 6 A1X 3 E Period 2 TDDD89 Scientific Method 6 A1X 3 C	TSBB11	Images and Graphics, Project Course CDIO	12*	A1X	4	Е
TSEA26 Design of Embedded DSP Processor 6 A1X 1 E TSEK11 Evaluation of an Integrated Circuit 2 A1X 4 E TSEK38 Radio Frequency Transceiver Design 6 A1X 2 E TSIN01 Information Networks 6 A1X 3 E TSKS05 Communication Systems, Project Course 12* A1X 4 E TSKS12 Modern Channel Coding, Inference and Learning 6 A1X 1 E TSRT10 Automatic Control - Project Course 12* A1X 4 E TSTE17 System Design 12* A1F 4 E TSTE18 Digital Arithmetics 6* A1X 3 E TSTE25 Power Electronics 6 A1X 3 E Period 2 TDDD89 Scientific Method 6 A1X 3 C	TSBB17	Visual Object Recognition and Detection	6	A1X	2	Е
TSEK11 Evaluation of an Integrated Circuit 2 A1X 4 E TSEK38 Radio Frequency Transceiver Design 6 A1X 2 E TSIN01 Information Networks 6 A1X 3 E TSKS05 Communication Systems, Project Course 12* A1X 4 E TSKS12 Modern Channel Coding, Inference and Learning 6 A1X 1 E TSRT10 Automatic Control - Project Course 12* A1X 4 E TSTE17 System Design 12* A1F 4 E TSTE18 Digital Arithmetics 6* A1X 3 E TSTE25 Power Electronics 6 A1X 3 E Period 2 TDDD89 Scientific Method 6 A1X 3 C	TSBK03	Advanced Game Programming	6*	A1X	1	E
TSEK38 Radio Frequency Transceiver Design 6 A1X 2 E TSIN01 Information Networks 6 A1X 3 E TSKS05 Communication Systems, Project Course 12* A1X 4 E TSKS12 Modern Channel Coding, Inference and Learning 6 A1X 1 E TSRT10 Automatic Control - Project Course 12* A1X 4 E TSTE17 System Design 12* A1F 4 E TSTE18 Digital Arithmetics 6* A1X 3 E TSTE25 Power Electronics 6 A1X 3 E Period 2 TDDD89 Scientific Method 6 A1X 3 C	TSEA26	Design of Embedded DSP Processor	6	A1X	1	E
TSIN01 Information Networks 6 A1X 3 E TSKS05 Communication Systems, Project Course 12* A1X 4 E TSKS12 Modern Channel Coding, Inference and Learning 6 A1X 1 E TSRT10 Automatic Control - Project Course 12* A1X 4 E TSTE17 System Design 12* A1F 4 E TSTE18 Digital Arithmetics 6* A1X 3 E TSTE25 Power Electronics 6 A1X 3 E Period 2 TDDD89 Scientific Method 6 A1X 3 C	TSEK11	Evaluation of an Integrated Circuit	2	A1X	4	E
TSKS05 Communication Systems, Project Course 12* A1X 4 E TSKS12 Modern Channel Coding, Inference and Learning 6 A1X 1 E TSRT10 Automatic Control - Project Course 12* A1X 4 E TSTE17 System Design 12* A1F 4 E TSTE18 Digital Arithmetics 6* A1X 3 E TSTE25 Power Electronics 6 A1X 3 E Period 2 TDDD89 Scientific Method 6 A1X 3 C	TSEK38	Radio Frequency Transceiver Design	6	A1X	2	E
TSKS12 Modern Channel Coding, Inference and Learning 6 A1X 1 E TSRT10 Automatic Control - Project Course 12* A1X 4 E TSTE17 System Design 12* A1F 4 E TSTE18 Digital Arithmetics 6* A1X 3 E TSTE25 Power Electronics 6 A1X 3 E Period 2 TDDD89 Scientific Method 6 A1X 3 C	TSIN01	Information Networks	6	A1X	3	E
TSRT10 Automatic Control - Project Course 12* A1X 4 E TSTE17 System Design 12* A1F 4 E TSTE18 Digital Arithmetics 6* A1X 3 E TSTE25 Power Electronics 6 A1X 3 E Period 2 TDDD89 Scientific Method 6 A1X 3 C	TSKS05	Communication Systems, Project Course	12*	A1X	4	E
TSTE17 System Design 12* A1F 4 E TSTE18 Digital Arithmetics 6* A1X 3 E TSTE25 Power Electronics 6 A1X 3 E Period 2 TDDD89 Scientific Method 6 A1X 3 C	TSKS12		6	A1X	1	E
TSTE18 Digital Arithmetics 6* A1X 3 E TSTE25 Power Electronics 6 A1X 3 E Period 2 TDDD89 Scientific Method 6 A1X 3 C	TSRT10	Automatic Control - Project Course	12*	A1X	4	Е
TSTE25 Power Electronics 6 A1X 3 E Period 2 TDDD89 Scientific Method 6 A1X 3 C	TSTE17	System Design	12*	A1F	4	E
Period 2 TDDD89 Scientific Method 6 A1X 3 C	TSTE18	Digital Arithmetics	6*	A1X	3	Е
TDDD89 Scientific Method 6 A1X 3 C	TSTE25	Power Electronics	6	A1X	3	Е
	Period 2					
TANA09 Numerical Algorithms in Computer Science 4 G2X 1 C/E	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 A1X 1 E TBMT14 Biomedical Engineering - Project Course 12* A1X 4 E TDDB44 Compiler Construction 6 A1X 1 E TDDD90 Software Security 6 A1X 1 E TDDD07 Real Time Systems 6 A1X 4 E TDDD07 Real Time Systems 6 A1X 4 E TDDD08 Advanced Software Engineering 6 A1X 4 E TDDD09 Advanced Software Engineering 6 A1X 2 E TDDD09 Multicore and GPU Programming 6 A1X 2 E TDDD18 Multi Agent Systems 6 A1X 1 E TDDE13 Multi Agent Systems 6 A1X 1 E TDDE14 Large-Scale Software Development: Contributions and Evolution 6* A1X 2 E TDDE19 Advanced Project Course - Al and Machine Learning 6 A1X 2 E TDDE10 Advanced Project Course - Game, App and Web Development TDDE20 Advanced Project Course: Secure Distributed and Embedded Systems 6 A1X 2 E TSB811 Images and Graphics, Project Course CDIO 12* A1X 4 E TSB803 Advanced Game Programming 6* A1X 2 E TSB810 Internetworking 6 A1N 1 E TSSK03 Communication Systems, Project Course 12* A1X 4 E TSSK05 Communication Systems, Project Course 12* A1X 4 E TSRT10 Automatic Control - Project Course 12* A1X 4 E TSTE18 Digital Arithmetics 6* A1X 3 E TSTE26 Powergrid and Technology for Renewable Production 6* A1X 3 E	Course code	Course name	Credits	Level	Timetable module	ECV
TBMT14 Biomedical Engineering - Project Course 12* A1X 4 E TDDB44 Compiler Construction 6 A1X 1 E TDDC90 Software Security 6 A1X 1 E TDDD07 Real Time Systems 6 A1X 4 E TDDD030 Advanced Software Engineering 6 A1X 4 E TDDD33 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: 6* A1X 4 E TDDE15 Text Mining 6 A1X 2 E TDDE16 Text Mining 6 A1X 2 E TDDE19 Advanced Project Course - Al and Machine Learning Advanced Project Course - Game, App and Web Development 6* A1X 4 E TDDE20 Advanced Project Course: Secure Distributed and Embedded Systems 6 A1X 4 E TDDE21 Advanced Project Course: Secure Distributed and Embedded Systems 6 A1X 4 E TSB811 Images and Graphics, Project Course CDIO 12* A1X 4 E TSB803 Advanced Game Programming 6* A1X - E TSB803 Advanced Game Programming 6* A1X - E TSB803 Internetworking 6 A1N 1 E TSBKO5 Communication Systems, Project Course 12* A1X 4 E TSRT10 Automatic Control - Project Course 12* A1X 4 E TSTE17 System Design 12* A1X 4 E TSTE18 Digital Arithmetics 6* A1X 3 E TSTE16 Powergrid and Technology for Renewable 6* A1X 3 E	TAOP61	Optimization of Realistic Complex Systems	6	A1N	3	E
TDDB44 Compiler Construction 6 A1X 1 E TDDC90 Software Security 6 A1X 1 E TDDD07 Real Time Systems 6 A1X 4 E TDDD030 Advanced Software Engineering 6 A1X 4 E TDDD43 Advanced Data Models and Databases 6* A1X 2 E TDDD56 Multicore and GPU Programming 6 A1X 2 E TDDD56 Multicore and GPU Programming 6 A1X 1 E TDDE13 Multi Agent Systems 6 A1X 1 E TDDE14 Large-Scale Software Development: Contributions and Evolution 6* A1X 2 E TDDE16 Text Mining 6 A1X 2 E TDDE19 Advanced Project Course - Al and Machine Learning 6* A1X 4 E TDDE20 Advanced Project Course - Game, App and Web Development TDDE21 Advanced Project Course: Secure Distributed and Embedded Systems 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 TSEA44 Computer Hardware - a System on Chip 6 A1F 1 E TSEA44 Computer Hardware - a System on Chip 6 A1F 1 E TSIRO2 Internetworking 6 A1N 1 E TSKS05 Communication Systems, Project Course 12* A1X 4 E TSRT10 Automatic Control - Project Course 12* A1X 4 E TSTE17 System Design 12* A1X 4 E TSTE18 Digital Arithmetics 6* A1X 3 E	TBMI02	Medical Image Analysis	6	A1X	1	E
TDDC90 Software Security TDDD07 Real Time Systems 6 A1X 4 E TDDD30 Advanced Software Engineering 6 A1X 4 E TDDD43 Advanced Data Models and Databases 6* A1X 2 E TDDD56 Multicore and GPU Programming 6 A1X 1 E TDDE13 Multi Agent Systems 6 A1X 1 E TDDE14 Large-Scale Software Development: Contributions and Evolution 6* A1X 2 E TDDE16 Text Mining 6 A1X 2 E TDDE19 Advanced Project Course - Al and Machine Learning TDDE20 Advanced Project Course - Game, App and Web Development 6* A1X 4 E TDDE21 Advanced Project Course: Secure Distributed and Embedded Systems TNM086 Virtual Reality Techniques 6 A1X 2 E TSBB11 Images and Graphics, Project Course CDIO TSBK03 Advanced Game Programming 6* A1X 4 E TSBK03 Advanced Game Programming 6* A1X 4 E TSEA44 Computer Hardware - a System on Chip 6 A1R 1 E TSIN02 Internetworking 6 A1N 1 E TSKS05 Communication Systems, Project Course 12* A1X 4 E TSRT10 Automatic Control - Project Course TSTE17 System Design TSTE18 Digital Arithmetics 6* A1X 3 E TSTE18 TSTE18 Digital Arithmetics 6 A1X 3 E	TBMT14	Biomedical Engineering - Project Course	12*	A1X	4	E
TDDD07 Real Time Systems 6 A1X 4 E TDDD30 Advanced Software Engineering 6 A1X 4 E TDDD43 Advanced Data Models and Databases 6* A1X 2 E TDDD56 Multicore and GPU Programming 6 A1X 2 E TDDD56 Multicore and GPU Programming 6 A1X 1 E TDDE13 Multi Agent Systems 6 A1X 1 E TDDE14 Large-Scale Software Development: Contributions and Evolution 6* A1X 2 E TDDE16 Text Mining 6 A1X 2 E TDDE19 Advanced Project Course - Al and Machine Learning 6* A1X 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 TSEA44 Computer Hardware - a System on Chip 6 A1F 1 E TSINO2 Internetworking 6 A1N 1 E TSKS05 Communication Systems, Project Course 12* A1X 4 E TSRT10 Automatic Control - Project Course 12* A1X 4 E TSTE17 System Design 12* A1X 4 E TSTE18 Digital Arithmetics 6* A1X 3 E	TDDB44	Compiler Construction	6	A1X	1	E
TDDD30 Advanced Software Engineering 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 2 E TDDE16 Text Mining 6 A1X 2 E TDDE19 Advanced Project Course - Al and Machine Learning 6* A1X 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 TSBB11 Images and Graphics, Project Course CDIO 12* A1X 4 E TSBR03 Advanced Game Programming 6* A1X - E TSEA44 Computer Hardware - a System on Chip 6 A1F 1 E TSINO2 Internetworking 6 A1N 1 E TSRC05 Communication Systems, Project Course 12* A1X 4 E TSRT10 Automatic Control - Project Course 12* A1X 4 E TSTE17 System Design 12* A1X 3 E TSTE18 Digital Arithmetics 6* A1X 3 E	TDDC90	Software Security	6	A1X	1	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 2 E TDDE16 Text Mining 6 A1X 2 E TDDE19 Advanced Project Course - Al and Machine Learning 6* A1X 4 E TDDE20 Advanced Project Course - Game, App and Web Development 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 TSEA44 Computer Hardware - a System on Chip 6 A1F 1 E TSINO2 Internetworking 6 A1N 1 E TSKS05 Communication Systems, Project Course 12* A1X 4 E TSRT10 Automatic Control - Project Course 12* A1X 4 E TSTE17 System Design 12* A1F 4 E TSTE18 Digital Arithmetics 6* A1X 3 E	TDDD07	Real Time Systems	6	A1X	4	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 - Al and Machine Learning 6* A1X 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 TSEA44 Computer Hardware - a System on Chip 6 A1F 1 E TSINO2 Internetworking 6 A1N 1 E TSKS05 Communication Systems, Project Course 12* A1X 4 E TSRT10 Automatic Control - Project Course 12* A1X 4 E TSTE17 System Design 12* A1F 4 E TSTE18 Digital Arithmetics 6* A1X 3 E	TDDD30	Advanced Software Engineering	6	A1X	4	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 - Al and Machine Learning 6* A1X 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 TSEA44 Computer Hardware - a System on Chip 6 A1F 1 E TSIN02 Internetworking 6 A1N 1 E TSKS05 Communication Systems, Project Course 12* A1X 4 E TSRT10 Automatic Control - Project Course 12* A1X 4 E TSTE17 System Design 12* A1X 4 E TSTE18 Digital Arithmetics 6* A1X 3 E	TDDD43	Advanced Data Models and Databases	6*	A1X	2	E
TDDE14 Large-Scale Software Development: Contributions and Evolution TDDE16 Text Mining Advanced Project Course - Al and Machine Learning Advanced Project Course - Game, App and Web Development TDDE20 Advanced Project Course: Secure Distributed and Embedded Systems TNM086 Virtual Reality Techniques TSBB11 Images and Graphics, Project Course CDIO TSBK03 Advanced Game Programming TSEA44 Computer Hardware - a System on Chip TSIN02 Internetworking TSKS05 Communication Systems, Project Course TSRT10 Automatic Control - Project Course TSTE17 System Design TSTE18 Digital Arithmetics 6 A1X 4 E E TSTE18 Digital Arithmetics 6 A1X 1 E A1X 4 E TSTE26 Powergrid and Technology for Renewable	TDDD56	Multicore and GPU Programming	6	A1X	2	E
TDDE14 Contributions and Evolution TDDE16 Text Mining Advanced Project Course - Al and Machine Learning Advanced Project Course - Game, App and Web Development TDDE20 Advanced Project Course: Secure Distributed and Embedded Systems TNM086 Virtual Reality Techniques TSBB11 Images and Graphics, Project Course CDIO TSBK03 Advanced Game Programming TSEA44 Computer Hardware - a System on Chip TSINO2 Internetworking TSKS05 Communication Systems, Project Course TSRT10 Automatic Control - Project Course TSTE17 System Design TSTE18 Digital Arithmetics A1X 4 E E A1X 4 E A1X 4 E A1X 4 E TSTE26 A1X 4 E TSRT10 Automatic Control - Project Course A1X 4 E TSTE18 Digital Arithmetics A1X 3 E TSTE18 Powergrid and Technology for Renewable	TDDE13	Multi Agent Systems	6	A1X	1	E
TDDE19 Advanced Project Course - Al and Machine Learning 6* A1X 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 2 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 TSEA44 Computer Hardware - a System on Chip 6 A1F 1 E TSIN02 Internetworking 6 A1N 1 E TSKS05 Communication Systems, Project Course 12* A1X 4 E TSRT10 Automatic Control - Project Course 12* A1X 4 E TSTE17 System Design 12* A1F 4 E TSTE18 Digital Arithmetics 6* A1X 3 E	TDDE14		6*	A1X	4	Е
TDDE19 Learning Advanced Project Course - Game, App and Web Development TDDE21 Advanced Project Course: Secure Distributed and Embedded Systems TNM086 Virtual Reality Techniques TSBB11 Images and Graphics, Project Course CDIO TSBK03 Advanced Game Programming TSEA44 Computer Hardware - a System on Chip TSIN02 Internetworking TSKS05 Communication Systems, Project Course TSRT10 Automatic Control - Project Course TSTE17 System Design TSTE18 Digital Arithmetics F STSTE18 Powergrid and Technology for Renewable F STSTE26 A1X 4 E TSTE18 A1X 4 E TSTE18 Powergrid and Technology for Renewable	TDDE16	Text Mining	6	A1X	2	Е
TDDE21 Advanced Project Course: Secure Distributed and Embedded Systems TNM086 Virtual Reality Techniques TSBB11 Images and Graphics, Project Course CDIO TSBK03 Advanced Game Programming TSEA44 Computer Hardware - a System on Chip TSIN02 Internetworking TSKS05 Communication Systems, Project Course TSRT10 Automatic Control - Project Course TSTE17 System Design TSTE18 Digital Arithmetics TSTE26 Powergrid and Technology for Renewable A1X 4 E E A1X 4 E E A1X 4 E A1X 4 E E A1X 4 E A1X 4 E E A1X 4 E A1X 4 E A1X 3 E	TDDE19	•	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 TSEA44 Computer Hardware - a System on Chip 6 A1F 1 E TSIN02 Internetworking 6 A1N 1 E TSKS05 Communication Systems, Project Course 12* A1X 4 E TSRT10 Automatic Control - Project Course 12* A1X 4 E TSTE17 System Design 12* A1F 4 E TSTE18 Digital Arithmetics 6* A1X 3 E TSTE26 Powergrid and Technology for Renewable 6 A1X 3 E	TDDE20		6*	A1X	4	E
TSBB11 Images and Graphics, Project Course CDIO 12* A1X 4 E TSBK03 Advanced Game Programming 6* A1X - E TSEA44 Computer Hardware - a System on Chip 6 A1F 1 E TSIN02 Internetworking 6 A1N 1 E TSKS05 Communication Systems, Project Course 12* A1X 4 E TSRT10 Automatic Control - Project Course 12* A1X 4 E TSTE17 System Design 12* A1F 4 E TSTE18 Digital Arithmetics 6* A1X 3 E	TDDE21	•	6*	A1X	4	E
TSBK03 Advanced Game Programming 6* A1X - E TSEA44 Computer Hardware - a System on Chip 6 A1F 1 E TSIN02 Internetworking 6 A1N 1 E TSKS05 Communication Systems, Project Course 12* A1X 4 E TSRT10 Automatic Control - Project Course 12* A1X 4 E TSTE17 System Design 12* A1F 4 E TSTE18 Digital Arithmetics 6* A1X 3 E TSTE26 Powergrid and Technology for Renewable 6 A1X 3 E	TNM086	Virtual Reality Techniques	6	A1X	2	E
TSEA44 Computer Hardware - a System on Chip 6 A1F 1 E TSIN02 Internetworking 6 A1N 1 E TSKS05 Communication Systems, Project Course 12* A1X 4 E TSRT10 Automatic Control - Project Course 12* A1X 4 E TSTE17 System Design 12* A1F 4 E TSTE18 Digital Arithmetics 6* A1X 3 E TSTE26 Powergrid and Technology for Renewable 6 A1X 3 E	TSBB11	Images and Graphics, Project Course CDIO	12*	A1X	4	E
TSIN02 Internetworking 6 A1N 1 E TSKS05 Communication Systems, Project Course 12* A1X 4 E TSRT10 Automatic Control - Project Course 12* A1X 4 E TSTE17 System Design 12* A1F 4 E TSTE18 Digital Arithmetics 6* A1X 3 E TSTE26 Powergrid and Technology for Renewable 6 A1X 3 E	TSBK03	Advanced Game Programming	6*	A1X	-	E
TSKS05 Communication Systems, Project Course 12* A1X 4 E TSRT10 Automatic Control - Project Course 12* A1X 4 E TSTE17 System Design 12* A1F 4 E TSTE18 Digital Arithmetics 6* A1X 3 E TSTE26 Powergrid and Technology for Renewable 6 A1X 3 E	TSEA44	Computer Hardware - a System on Chip	6	A1F	1	E
TSRT10 Automatic Control - Project Course 12* A1X 4 E TSTE17 System Design 12* A1F 4 E TSTE18 Digital Arithmetics 6* A1X 3 E TSTE26 Powergrid and Technology for Renewable 6 A1X 3 E	TSIN02	Internetworking	6	A1N	1	E
TSTE17 System Design 12* A1F 4 E TSTE18 Digital Arithmetics 6* A1X 3 E TSTE26 Powergrid and Technology for Renewable 6 A1X 3 E	TSKS05	Communication Systems, Project Course	12*	A1X	4	E
TSTE18 Digital Arithmetics 6* A1X 3 E TSTE26 Powergrid and Technology for Renewable 6 A1X 3 E	TSRT10	Automatic Control - Project Course	12*	A1X	4	Е
Powergrid and Technology for Renewable 6 A1Y 3 F	TSTE17	System Design	12*	A1F	4	Е
	TSTE18	Digital Arithmetics	6*	A1X	3	E
	TSTE26		6	A1X	3	E
TSTE85 Low Power Electronics 6 A1X 2 E	TSTE85	Low Power Electronics	6	A1X	2	Е



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*	A1X	4	С
TDDE15	Advanced Machine Learning	6	A1X	1	Е
TSBB17	Visual Object Recognition and Detection	6	A1X	2	E
TSRT62	Modelling and Simulation	6	A1X	3	Е
Period 2					
TDDE19	Advanced Project Course - Al and Machine Learning	6*	A1X	4	С
TDDE13	Multi Agent Systems	6	A1X	1	E
TDDE16	Text Mining	6	A1X	2	E

Specialisation: Biomedical Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TBMT14	Biomedical Engineering - Project Course	12*	A1X	4	С
TAMS39	Multivariate Statistical Methods	6	A1X	4	E
TBMT36	Biomedical Optics	6	A1X	1	E
Period 2					
TBMT14	Biomedical Engineering - Project Course	12*	A1X	4	С
TBMI02	Medical Image Analysis	6	A1X	1	E

Specialisation: Communication

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TSIN01	Information Networks	6	A1X	3	С
TSEK38	Radio Frequency Transceiver Design	6	A1X	2	E
TSIT03	Cryptology	6	A1X	2	E
TSKS05	Communication Systems, Project Course	12*	A1X	4	E
TSKS12	Modern Channel Coding, Inference and Learning	6	A1X	1	E
Period 2					
TSKS05	Communication Systems, Project Course	12*	A1X	4	E



Specialisation: Computer Games Programming

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	E
TSBB11	Images and Graphics, Project Course CDIO	12*	A1X	4	E
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	E
TSIN02	Internetworking	6	A1N	1	E

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	Е
TSEA26	Design of Embedded DSP Processor	6	A1X	1	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
TSIN02	Internetworking	6	A1N	1	E
TSKS01	Digital Communication	6*	A1X	4	E



Specialisation: Electronics

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TSEA26	Design of Embedded DSP Processor	6	A1X	1	Е
TSEK11	Evaluation of an Integrated Circuit	2	A1X	4	E
TSEK38	Radio Frequency Transceiver Design	6	A1X	2	E
TSTE17	System Design	12*	A1F	4	E
TSTE18	Digital Arithmetics	6*	A1X	3	E
TSTE25	Power Electronics	6	A1X	3	E
Period 2					
TSEA44	Computer Hardware - a System on Chip	6	A1F	1	E
TSTE17	System Design	12*	A1F	4	E
TSTE18	Digital Arithmetics	6*	A1X	3	E
TSTE26	Powergrid and Technology for Renewable Production	6	A1X	3	E
TSTE85	Low Power Electronics	6	A1X	2	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
TDDB84	Design Patterns	6	A1X	4	E
TDDD38	Advanced Programming in C++	6*	A1X	2	Е
TDDD43	Advanced Data Models and Databases	6*	A1X	2	Е
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	Е
TDDD07	Real Time Systems	6	A1X	4	Е
TDDD30	Advanced Software Engineering	6	A1X	4	E
TDDD38	Advanced Programming in C++	6*	A1X	-	Е
TDDD43	Advanced Data Models and Databases	6*	A1X	2	E
TDEI19	Management Control	6	A1X	2	E
TEIM03	Intercultural Communication	4	G1X	4	Е

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					
TDDD30	Advanced Software Engineering	6	A1X	4	E
TDDE14	Large-Scale Software Development: Contributions and Evolution	6*	A1X	4	E



Specialisation: Programming and Algorithms

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDDB84	Design Patterns	6	A1X	4	E
TDDD08	Logic Programming	6	A1X	4	E
TSIT03	Cryptology	6	A1X	2	E
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					
TDDB84	Design Patterns	6	A1X	4	С
TDDD04	Software Testing	6	A1X	2	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
TDDD30	Advanced Software Engineering	6	A1X	4	E
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: Signal and Image Processing

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TNM067	Scientific Visualization	6	A1X	3	Е
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	Е
TSKS15	Detection and Estimation of Signals	6	A1X	2	E
Period 2					
TBMI02	Medical Image Analysis	6	A1X	1	E
TDDD56	Multicore and GPU Programming	6	A1X	2	Е
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	-	Е

Specialisation: System-on-Chip

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TSEA26	Design of Embedded DSP Processor	6	A1X	1	Е
TSEK11	Evaluation of an Integrated Circuit	2	A1X	4	E
TSTE17	System Design	12*	A1F	4	E
TSTE18	Digital Arithmetics	6*	A1X	3	Е
Period 2					
TDDB44	Compiler Construction	6	A1X	1	Е
TSEA44	Computer Hardware - a System on Chip	6	A1F	1	E
TSTE17	System Design	12*	A1F	4	E
TSTE18	Digital Arithmetics	6*	A1X	3	E
TSTE85	Low Power Electronics	6	A1X	2	E



Specialisation: Systems Technology

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TSRT62	Modelling and Simulation	6	A1X	3	C/E
TDDB84	Design Patterns	6	A1X	4	E
TDDD43	Advanced Data Models and Databases	6*	A1X	2	Е
TDDE19	Advanced Project Course - Al and Machine Learning	6*	A1X	4	E
Period 2					
TDDB44	Compiler Construction	6	A1X	1	C/E
TDDD43	Advanced Data Models and Databases	6*	A1X	2	E
TDDE19	Advanced Project Course - Al and Machine Learning	6*	A1X	4	E

Semester 10 (Spring 2018)

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