

Applied Physics and Electrical Engineering - International, M Sc in Engineering

300 credits

Civilingenjör i teknisk fysik och elektroteknik - internationell

6CYYI

Valid from: 2014 Spring semester

Determined by

Board of Studies for Electrical Engineering, Physics and Mathematics

Date determined

APPLIED PHYSICS AND ELECTRICAL ENGINEERING INTERNATIONAL, M SC IN ENGINEERING
APPROVED
2 (27)

Entry requirements

Degree in Swedish

Civilingenjör 300 hp och Teknologie master 120 hp



3 (27)

Curriculum

Semester 6 (Spring 2017)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TFYA73	Modern Physics I	4	G2X	3	С
TSRT12	Automatic Control	6	G2X	1	С
TFYA75	Applied Physics - Bachelor Project	16*	G2E	2	Е
TSEA56	Electronics Engineering - Bachelor Project	16*	G2X	2	E
Period 2					
TAMS14	Probability, first course	4	G1X	4	С
TEAE01	Industrial Economics, Basic Course	6	G1X	2	E
TFYA74	Modern Physics II	4	G2X	1	Е
TFYA75	Applied Physics - Bachelor Project	16*	G2E	-	E
TSEA56	Electronics Engineering - Bachelor Project	16*	G2X	-	E
TSKS10	Signals, Information and Communication	4	G2X	3	E

Semester 7 (Autumn 2017)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
THSP18	Spanish for Engineers III	6*	G2X	-	С
TAMS22	Probability Theory and Bayesian Networks	6	A1X	2	Е
TAMS32	Stochastic Processes	6	A1X	1	E
TAMS46	Probability Theory, Second Course	6	A1X	3	E
TAOP34	Large Scale Optimization	6	A1X	3	E
TATA34	Real Analysis, Honours Course	6	G2X	4	E
TATA55	Abstract Algebra	6	G2X	3	E
TATM85	Functional Analysis	6*	A1X	2	E
TBME04	Anatomy and Physiology	6	G2X	3	E
TBMI19	Medical Information Systems	6*	A1X	2	Е
TDDC17	Artificial Intelligence	6	G2X	3	E
TDDD38	Advanced Programming in C++	6*	A1X	2	E



Course code	Course name	Credits	Level	Timetable module	ECV
TDTS06	Computer Networks	6	G2X	1	Е
TFFM08	Experimental Physics	6*	A1X	1	Е
TFFY54	Quantum Mechanics	6	A1X	2	E
TFYA40	Analytical Mechanics	6	A1X	4	E
TFYA43	Nanotechnology	6	G2X	3	E
TFYA77	Fundamentals in Materials Science	6	A1X	2	Е
TFYA88	Additive Manufacturing: Tools, Materials and Methods	6	A1X	3	E
ТМКМ90	Engineering Materials - Deformation and Fracture	6	A1X	4	E
TPPE17	Corporate Finance	6	G2X	4	Е
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
TSKS01	Digital Communication	6	A1X	4	E
TSKS15	Detection and Estimation of Signals	6	A1X	2	Е
TSRT62	Modelling and Simulation	6	A1X	3	Е
TSTE12	Design of Digital Systems	6	A1X	3	E
TSTE86	Digital Integrated Circuits	6	A1X	2	Е
Period 2					
THSP18	Spanish for Engineers III	6*	G2X	-	С
TAMS17	Statistical Theory, advanced course	6	A1X	1	Е
TAMS38	Experimental Design and Biostatistics	6	A1X	3	E
TAOP04	Mathematical Optimization	6	A1X	4	E
TATA34	Real Analysis, Honours Course	6	G2X	4	Е
TATA55	Abstract Algebra	6	G2X	3	E
TATA71	Ordinary Differential Equations and Dynamical Systems	6	G2X	3	E
TATM85	Functional Analysis	6*	A1X	1	Е
TATM85	Functional Analysis	6	A1X	1	E
TBME03	Biochemistry and Cell Biology	6	G2X	2	Е



TBMI19 Medical Information Systems 6* A1X 3 E TBMI19 Medical Information Systems 6 A1X 1 E TBMT01 Biomedical Signal Processing 6 A1X 1 E TDDD38 Advanced Programming in C++ 6* A1X 2 E TDTS08 Advanced Computer Architecture 6 A1X 2 E TEAE05 Resource Theory 6 G1X 1 E TFFM08 Experimental Physics 6* A1X 1 E TFFM08 Experimental Physics 6 A1X 1 E TFFYA0 Physics of Condensed Matter part I 6 A1X 2 E TFYA20 Surface Physics 6 A1X 1 E TFYA22 Surface Physics 6 <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
TBMT01 Biomedical Signal Processing 6 A1X 1 E TDDD38 Advanced Programming in C++ 6* A1X - E TDTS08 Advanced Computer Architecture 6 A1X 2 E TEAE05 Resource Theory 6 G1X 1 E TFFM08 Experimental Physics 6* A1X 1 E TFFM08 Experimental Physics 6 A1X 1 E TFFY00 Physics of Condensed Matter part I 6 A1X 1 E TFFYA20 Surface Physics 6 A1X 2 E TFYA22 Surface Physics 6 A1X 1 E TFYA23 Semiconductor Technology 6 A1X <	TBMI19	Medical Information Systems	6*	A1X	3	E
TDDD38 Advanced Programming in C++ 6* A1X - E TDTS08 Advanced Computer Architecture 6 A1X 2 E TEAE05 Resource Theory 6 G1X 1 E TFFM08 Experimental Physics 6* A1X 1 E TFFM08 Experimental Physics 6 A1X 1 E TFFM08 Experimental Physics 6 A1X 1 E TFFM09 Physics of Condensed Matter part I 6 A1X 2 E TFYA20 Surface Physics 6 A1X 4 E TFYA22 Surface Physics 6 A1X 4 E TFYA20 Surface Physics 6 A1X 4 E TFYA28 Quantum Dynamics 6 A1X 1 E TFYA28 Quantum Dynamics 6 A1X 3 E TFYA39 Semiconductor Technology 6 G1X 3 <td>TBMI19</td> <td>Medical Information Systems</td> <td>6</td> <td>A1X</td> <td>3</td> <td>Е</td>	TBMI19	Medical Information Systems	6	A1X	3	Е
TDTS08 Advanced Computer Architecture 6 A1X 2 E TEAE05 Resource Theory 6 G1X 1 E TFFM08 Experimental Physics 6* A1X 1 E TFFM08 Experimental Physics 6 A1X 1 E TFFM08 Experimental Physics 6 A1X 1 E TFFM09 Experimental Physics 6 A1X 1 E TFFM09 Physics of Condensed Matter part I 6 A1X 2 E TFYA20 Surface Physics 6 A1X 4 E TFYA28 Quantum Dynamics 6 A1X 1 E TFYA39 Semiconductor Technology 6 A1X 3 E TFYA60 Astronomy and Geophysics 6 G1X 3 E TGTU04 Leadership 6 G2X 2 E TGTU49 History of Technology 6 G1F 3 E TKMJ24 Environmental Engineering 6 G1X 3 E TMHL03 Mechanics of Light Structures 6 A1X 3 E TMMS07 Biomechanics 6 A1X 4 E TMMV18 Fluid Mechanics 6 A1X 2 E TMMV18 Fluid Mechanics 6 A1X 1 E TSP29 Financial Markets and Instruments 6 A1X 2 E TSB806 Multidimensional Signal Analysis 6 A1X 4 E TSER02 Radio Electronics 6 A1X 1 E TSEK02 Radio Electronics 6 A1X 1 E TSFS02 Vehicle Dynamics and Control 6 A1X 1 E TSFS09 Modelling and Control of Engines and Drivelines TSIN02 Internetworking 6 A1N 1 E TSIN02 Computer Security 6 G2F 2 E	TBMT01	Biomedical Signal Processing	6	A1X	1	E
TEAE05 Resource Theory 6 G1X 1 E TFFM08 Experimental Physics 6* A1X 1 E TFFM08 Experimental Physics 6 A1X 1 E TFFM09 Physics of Condensed Matter part I 6 A1X 2 E TFYA20 Surface Physics 6 A1X 4 E TFYA28 Quantum Dynamics 6 A1X 1 E TFYA39 Semiconductor Technology 6 A1X 3 E TFYA60 Astronomy and Geophysics 6 G1X 3 E TGTU40 Leadership 6 G2X 2 E TGTU49 History of Technology 6 G1X 3 E TKMJ24 Environmental Engineering 6 G1X 3 E TMML03 Mechanics of Light Structures 6 A1X 3 E TMMV57 Biomechanics 6 A1X 4	TDDD38	Advanced Programming in C++	6*	A1X	-	E
TFFM08 Experimental Physics 6* A1X 1 E TFFM08 Experimental Physics 6 A1X 1 E TFFM08 Experimental Physics 6 A1X 1 E TFFY02 Physics of Condensed Matter part I 6 A1X 2 E TFYA20 Surface Physics 6 A1X 4 E TFYA28 Quantum Dynamics 6 A1X 1 E TFYA39 Semiconductor Technology 6 A1X 3 E TFYA60 Astronomy and Geophysics 6 G1X 3 E TGTU04 Leadership 6 G2X 2 E TGTU49 History of Technology 6 G1F 3 E TKMJ24 Environmental Engineering 6 G1X 3 E TMHL03 Mechanics of Light Structures 6 A1X 3 E TMMS07 Biomechanics 6 A1X 4<	TDTS08	Advanced Computer Architecture	6	A1X	2	Е
TFFM08 Experimental Physics 6 A1X 1 E TFFY70 Physics of Condensed Matter part I 6 A1X 2 E TFYA20 Surface Physics 6 A1X 4 E TFYA28 Quantum Dynamics 6 A1X 1 E TFYA39 Semiconductor Technology 6 A1X 3 E TFYA60 Astronomy and Geophysics 6 G1X 3 E TGTU04 Leadership 6 G2X 2 E TGTU49 History of Technology 6 G1F 3 E TKMJ24 Environmental Engineering 6 G1X 3 E TMHL03 Mechanics of Light Structures 6 A1X 3 E TMMS07 Biomechanics 6 A1X 4 E TMMV18 Fluid Mechanics 6 A1X 2 E TMMV18 Fluid Mechanics 6 A1X 2 E TMMV54 Computational Heat Transfer 6 A1X 1 E TSBB06 Multidimensional Signal Analysis 6 A1X 2 E TSBB09 Image Sensors 6 A1X 4 E TSEK02 Radio Electronics 6 A1X 1 E TSEK02 Radio Electronics 6 A1X 1 E TSFS02 Vehicle Dynamics and Control 6 A1X 1 E TSFS09 Modelling and Control of Engines and Drivelines 6 A1X 1 E TSIN02 Internetworking 6 A1X 1 E TSIN02 Computer Security 6 G2F 2 E	TEAE05	Resource Theory	6	G1X	1	E
TFFY70 Physics of Condensed Matter part I 6 A1X 2 E TFYA20 Surface Physics 6 A1X 4 E TFYA28 Quantum Dynamics 6 A1X 1 E TFYA39 Semiconductor Technology 6 A1X 3 E TFYA60 Astronomy and Geophysics 6 G1X 3 E TGTU04 Leadership 6 G2X 2 E TGTU49 History of Technology 6 G1F 3 E TKMJ24 Environmental Engineering 6 G1X 3 E TMHL03 Mechanics of Light Structures 6 A1X 3 E TMMS07 Biomechanics 6 A1X 4 E TMMV18 Fluid Mechanics 6 A1X 2 E TMMV54 Computational Heat Transfer 6 A1X 1 E TPPE29 Financial Markets and Instruments 6 A1X 2 E TSBB06 Multidimensional Signal Analysis 6 A1X 4 E TSBB09 Image Sensors 6 A1X 4 E TSEK02 Radio Electronics 6 A1X 1 E TSEK37 Analog CMOS Integrated Circuits 6 A1X 1 E TSFS09 Modelling and Control of Engines and Drivelines 1 Directory 1 E TSIN02 Internetworking 6 A1N 1 E TSIN02 Computer Security 6 G2F 2 E	TFFM08	Experimental Physics	6*	A1X	1	E
TFYA20 Surface Physics 6 A1X 4 E TFYA28 Quantum Dynamics 6 A1X 1 E TFYA39 Semiconductor Technology 6 A1X 3 E TFYA60 Astronomy and Geophysics 6 G1X 3 E TGTU04 Leadership 6 G2X 2 E TGTU04 History of Technology 6 G1F 3 E TKMJ24 Environmental Engineering 6 G1X 3 E TMHL03 Mechanics of Light Structures 6 A1X 3 E TMMS07 Biomechanics 6 A1X 4 E TMMV18 Fluid Mechanics 6 A1X 1 E TMMV54 Computational Heat Transfer 6 A1X 1 E TPPE29 Financial Markets and Instruments 6 A1X 2 E TSBB06 Multidimensional Signal Analysis 6 A1X 4 E TSER02 Radio Electronics 6 A1X 1 E TSEK02 Radio Electronics 6 A1X 1 E TSFS09 Modelling and Control of Engines and Drivelines 6 A1X 1 E TSFS09 Internetworking 6 A1X 1 E TSIT02 Computer Security 6 G2F 2 E	TFFM08	Experimental Physics	6	A1X	1	E
TFYA28 Quantum Dynamics 6 A1X 1 E TFYA39 Semiconductor Technology 6 A1X 3 E TFYA60 Astronomy and Geophysics 6 G1X 3 E TGTU04 Leadership 6 G2X 2 E TGTU49 History of Technology 6 G1F 3 E TKMJ24 Environmental Engineering 6 G1X 3 E TMHL03 Mechanics of Light Structures 6 A1X 3 E TMMS07 Biomechanics 6 A1X 4 E TMMV18 Fluid Mechanics 6 A1X 2 E TMMV54 Computational Heat Transfer 6 A1X 1 E TPPE29 Financial Markets and Instruments 6 A1X 2 E TSBB06 Multidimensional Signal Analysis 6 A1X 3 E TSBB09 Image Sensors 6 A1X 4 E TSEA81 Computer Engineering and Real-time Systems 6 A1X 4 E TSEK02 Radio Electronics 6 A1X 1 E TSFS02 Vehicle Dynamics and Control 6 A1X 1 E TSFS09 Modelling and Control of Engines and Drivelines 6 A1X 1 E TSIN02 Internetworking 6 A1N 1 E TSIN02 Internetworking 6 A1N 1 E	TFFY70	Physics of Condensed Matter part I	6	A1X	2	E
TFYA39 Semiconductor Technology 6 A1X 3 E TFYA60 Astronomy and Geophysics 6 G1X 3 E TGTU04 Leadership 6 G2X 2 E TGTU49 History of Technology 6 G1F 3 E TKMJ24 Environmental Engineering 6 G1X 3 E TMHL03 Mechanics of Light Structures 6 A1X 3 E TMMS07 Biomechanics 6 A1X 4 E TMMV18 Fluid Mechanics 6 A1X 2 E TMMV54 Computational Heat Transfer 6 A1X 1 E TPPE29 Financial Markets and Instruments 6 A1X 2 E TSBB06 Multidimensional Signal Analysis 6 A1X 3 E TSBB09 Image Sensors 6 A1X 4 E TSEA81 Computer Engineering and Real-time Systems 6 A1X 4 E TSEK02 Radio Electronics 6 A1X 1 E TSFS02 Vehicle Dynamics and Control 6 A1X 1 E TSFS09 Modelling and Control of Engines and Drivelines 6 A1X 1 E TSIN02 Internetworking 6 A1N 1 E TSIN02 Internetworking 6 A1N 1 E	TFYA20	Surface Physics	6	A1X	4	Е
TFYA60 Astronomy and Geophysics 6 G1X 3 E TGTU04 Leadership 6 G2X 2 E TGTU49 History of Technology 6 G1F 3 E TKMJ24 Environmental Engineering 6 G1X 3 E TMHL03 Mechanics of Light Structures 6 A1X 3 E TMMS07 Biomechanics 6 A1X 4 E TMMV18 Fluid Mechanics 6 A1X 2 E TMMV54 Computational Heat Transfer 6 A1X 1 E TPPE29 Financial Markets and Instruments 6 A1X 2 E TSBB06 Multidimensional Signal Analysis 6 A1X 3 E TSBB09 Image Sensors 6 A1X 4 E TSEK02 Radio Electronics 6 A1X 4 E TSEK02 Radio Electronics 6 A1X 1 E TSFS02 Vehicle Dynamics and Control 6 A1X 1 E TSFS09 Modelling and Control of Engines and Drivelines 6 A1X 1 E TSIN02 Internetworking 6 A1N 1 E TSIN02 Computer Security 6 G2F 2 E	TFYA28	Quantum Dynamics	6	A1X	1	E
TGTU04 Leadership 6 G2X 2 E TGTU49 History of Technology 6 G1F 3 E TKMJ24 Environmental Engineering 6 G1X 3 E TMHL03 Mechanics of Light Structures 6 A1X 3 E TMMS07 Biomechanics 6 A1X 4 E TMMV18 Fluid Mechanics 6 A1X 2 E TMMV54 Computational Heat Transfer 6 A1X 1 E TPPE29 Financial Markets and Instruments 6 A1X 2 E TSBB06 Multidimensional Signal Analysis 6 A1X 3 E TSBB09 Image Sensors 6 A1X 4 E TSEK02 Radio Electronics 6 A1X 4 E TSEK37 Analog CMOS Integrated Circuits 6 A1X 1 E TSFS09 Modelling and Control of Engines and Drivelines 6 A1X 1 E TSFS09 Internetworking 6 A1X 1 E TSIT02 Computer Security 6 G2F 2 E	TFYA39	Semiconductor Technology	6	A1X	3	E
TGTU49 History of Technology 6 G1F 3 E TKMJ24 Environmental Engineering 6 G1X 3 E TMHL03 Mechanics of Light Structures 6 A1X 3 E TMMS07 Biomechanics 6 A1X 4 E TMMV18 Fluid Mechanics 6 A1X 2 E TMMV54 Computational Heat Transfer 6 A1X 1 E TPPE29 Financial Markets and Instruments 6 A1X 2 E TSBB06 Multidimensional Signal Analysis 6 A1X 3 E TSBB09 Image Sensors 6 A1X 4 E TSEK02 Radio Electronics 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 Internetworking 6 A1X 1 E TSIN02 Internetworking 6 A1N 1 E TSIN02 Computer Security 6 G2F 2 E	TFYA60	Astronomy and Geophysics	6	G1X	3	E
TKMJ24 Environmental Engineering 6 G1X 3 E TMHL03 Mechanics of Light Structures 6 A1X 3 E TMMS07 Biomechanics 6 A1X 4 E TMMV18 Fluid Mechanics 6 A1X 2 E TMMV54 Computational Heat Transfer 6 A1X 1 E TPPE29 Financial Markets and Instruments 6 A1X 2 E TSBB06 Multidimensional Signal Analysis 6 A1X 3 E TSEM09 Image Sensors 6 A1X 4 E TSEK02 Radio Electronics 6 A1X 4 E TSEK02 Radio Electronics 6 A1X 1 E TSFS02 Vehicle Dynamics and Control 6 A1X 1 E TSFS09 Modelling and Control of Engines and Drivelines 6 A1N 1 E TSIN02 Internetworking 6 A1N 1 E TSIN02 Internetworking 6 A1N 1 E	TGTU04	Leadership	6	G2X	2	E
TMHL03Mechanics of Light Structures6A1X3ETMMS07Biomechanics6A1X4ETMMV18Fluid Mechanics6A1X2ETMMV54Computational Heat Transfer6A1X1ETPPE29Financial Markets and Instruments6A1X2ETSBB06Multidimensional Signal Analysis6A1X3ETSEB09Image Sensors6A1X4ETSEA81Computer Engineering and Real-time Systems6A1X4ETSEK02Radio Electronics6A1X3ETSEK37Analog CMOS Integrated Circuits6A1X1ETSFS02Vehicle Dynamics and Control6A1X1ETSFS09Modelling and Control of Engines and Drivelines6A1X3ETSIN02Internetworking6A1N1ETSIT02Computer Security6G2F2E	TGTU49	History of Technology	6	G1F	3	Е
TMMS07Biomechanics6A1X4ETMMV18Fluid Mechanics6A1X2ETMMV54Computational Heat Transfer6A1X1ETPPE29Financial Markets and Instruments6A1X2ETSBB06Multidimensional Signal Analysis6A1X3ETSBB09Image Sensors6A1X4ETSEA81Computer Engineering and Real-time Systems6A1X4ETSEK02Radio Electronics6A1X3ETSEK37Analog CMOS Integrated Circuits6A1X1ETSFS02Vehicle Dynamics and Control6A1X1ETSFS09Modelling and Control of Engines and Drivelines6A1X3ETSIN02Internetworking6A1N1ETSIN02Computer Security6G2F2E	TKMJ24	Environmental Engineering	6	G1X	3	E
TMMV18Fluid Mechanics6A1X2ETMMV54Computational Heat Transfer6A1X1ETPPE29Financial Markets and Instruments6A1X2ETSBB06Multidimensional Signal Analysis6A1X3ETSBB09Image Sensors6A1X4ETSEA81Computer Engineering and Real-time Systems6A1X4ETSEK02Radio Electronics6A1X3ETSEK37Analog CMOS Integrated Circuits6A1X1ETSFS02Vehicle Dynamics and Control6A1X1ETSFS09Modelling and Control of Engines and Drivelines6A1X3ETSIN02Internetworking6A1N1ETSIN02Internetworking6G2F2E	TMHL03	Mechanics of Light Structures	6	A1X	3	E
TMMV54Computational Heat Transfer6A1X1ETPPE29Financial Markets and Instruments6A1X2ETSBB06Multidimensional Signal Analysis6A1X3ETSBB09Image Sensors6A1X4ETSEA81Computer Engineering and Real-time Systems6A1X4ETSEK02Radio Electronics6A1X3ETSEK37Analog CMOS Integrated Circuits6A1X1ETSFS02Vehicle Dynamics and Control6A1X1ETSFS09Modelling and Control of Engines and Drivelines6A1X3ETSIN02Internetworking6A1N1ETSIT02Computer Security6G2F2E	TMMS07	Biomechanics	6	A1X	4	E
TPPE29Financial Markets and Instruments6A1X2ETSBB06Multidimensional Signal Analysis6A1X3ETSBB09Image Sensors6A1X4ETSEA81Computer Engineering and Real-time Systems6A1X4ETSEK02Radio Electronics6A1X3ETSEK37Analog CMOS Integrated Circuits6A1X1ETSFS02Vehicle Dynamics and Control6A1X1ETSFS09Modelling and Control of Engines and Drivelines6A1X3ETSIN02Internetworking6A1N1ETSIT02Computer Security6G2F2E	TMMV18	Fluid Mechanics	6	A1X	2	E
TSBB06 Multidimensional Signal Analysis 6 A1X 3 E TSBB09 Image Sensors 6 A1X 4 E TSEA81 Computer Engineering and Real-time Systems 6 A1X 4 E 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	TMMV54	Computational Heat Transfer	6	A1X	1	Е
TSBB09 Image Sensors 6 A1X 4 E TSEA81 Computer Engineering and Real-time Systems 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 1 E TSIN02 Internetworking 6 A1N 1 E TSIT02 Computer Security 6 G2F 2 E	TPPE29	Financial Markets and Instruments	6	A1X	2	Е
TSEA81 Computer Engineering and Real-time Systems 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	TSBB06	Multidimensional Signal Analysis	6	A1X	3	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	TSBB09	Image Sensors	6	A1X	4	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	TSEA81	Computer Engineering and Real-time Systems	6	A1X	4	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	TSEK02	Radio Electronics	6	A1X	3	Е
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	TSEK37	Analog CMOS Integrated Circuits	6	A1X	1	E
TSIN02 Internetworking 6 A1N 1 E TSIT02 Computer Security 6 G2F 2 E	TSFS02	Vehicle Dynamics and Control	6	A1X	1	E
TSIT02 Computer Security 6 G2F 2 E	TSFS09		6	A1X	3	E
	TSIN02	Internetworking	6	A1N	1	E
TSKS01 Digital Communication 6 A1X 4 E	TSIT02	Computer Security	6	G2F	2	Е
	TSKS01	Digital Communication	6	A1X	4	E



Course code	Course name	Credits	Level	Timetable module	ECV
TSKS11	Networks: Models, Algorithms and Applications	6	G2X	3	E
TSRT78	Digital Signal Processing	6	A1X	2	E

Specialisation: Applied Mathematics

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TAMS32	Stochastic Processes	6	A1X	1	С
TAMS46	Probability Theory, Second Course	6	A1X	3	E
TAOP34	Large Scale Optimization	6	A1X	3	E
TATA55	Abstract Algebra	6	G2X	3	E
TFYA40	Analytical Mechanics	6	A1X	4	E
TSKS15	Detection and Estimation of Signals	6	A1X	2	E
Period 2					
TATM85	Functional Analysis	6	A1X	1	С
TAOP04	Mathematical Optimization	6	A1X	4	E
TATA55	Abstract Algebra	6	G2X	3	E
TATA71	Ordinary Differential Equations and Dynamical Systems	6	G2X	3	E

$Specialisation:\ Biomedical\ Engineering$

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TBME04	Anatomy and Physiology	6	G2X	3	С
TSDT14	Signal Theory	6	A1X	1	E
Period 2					
TBMT01	Biomedical Signal Processing	6	A1X	1	С
TBME03	Biochemistry and Cell Biology	6	G2X	2	E
TBMI19	Medical Information Systems	6	A1X	3	Е
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Specialisation: Communication

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TSDT14	Signal Theory	6	A1X	1	С
TSKS01	Digital Communication	6	A1X	4	С
TSKS15	Detection and Estimation of Signals	6	A1X	2	С
TDTS06	Computer Networks	6	G2X	1	Е
Period 2					
TSKS01	Digital Communication	6	A1X	4	С
TSEK02	Radio Electronics	6	A1X	3	E
TSIN02	Internetworking	6	A1N	1	Е
TSKS11	Networks: Models, Algorithms and Applications	6	G2X	3	E
TSRT78	Digital Signal Processing	6	A1X	2	E

$Specialisation: Control\ and\ Information\ Systems$

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TSRT62	Modelling and Simulation	6	A1X	3	С
TSDT14	Signal Theory	6	A1X	1	E
TSFS09	Modelling and Control of Engines and Drivelines	6	A1X	4	E
TSKS15	Detection and Estimation of Signals	6	A1X	2	E
Period 2					
TSEA81	Computer Engineering and Real-time Systems	6	A1X	4	
TSRT78	Digital Signal Processing	6	A1X	2	С
TSFS02	Vehicle Dynamics and Control	6	A1X	1	E
TSFS09	Modelling and Control of Engines and Drivelines	6	A1X	3	E



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	Е
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

Specialisation: Financial Mathematics

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TAMS32	Stochastic Processes	6	A1X	1	С
TPPE17	Corporate Finance	6	G2X	4	С
TAMS46	Probability Theory, Second Course	6	A1X	3	E
Period 2					
TAOP04	Mathematical Optimization	6	A1X	4	E
TATM85	Functional Analysis	6	A1X	1	E
TPPE29	Financial Markets and Instruments	6	A1X	2	E



Specialisation: Materials and Nano Physics

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TFFM08	Experimental Physics	6*	A1X	1	С
TFFY54	Quantum Mechanics	6	A1X	2	С
TFYA40	Analytical Mechanics	6	A1X	4	E
TFYA43	Nanotechnology	6	G2X	3	E
Period 2					
TFFM08	Experimental Physics	6*	A1X	1	С
TFFY70	Physics of Condensed Matter part I	6	A1X	2	С
TFYA20	Surface Physics	6	A1X	4	Е
TFYA39	Semiconductor Technology	6	A1X	3	E

Specialisation: Mechatronics

	Course code	Course name	Credits	Level	Timetable module	ECV
F	Period 1					
_1	ΓSFS09	Modelling and Control of Engines and Drivelines	6	A1X	4	E
1	rsrt62	Modelling and Simulation	6	A1X	3	E
F	Period 2					
	ΓSEA81	Computer Engineering and Real-time Systems	6	A1X	4	С
1	TSFS02	Vehicle Dynamics and Control	6	A1X	1	E
1	TSFS09	Modelling and Control of Engines and Drivelines	6	A1X	3	E
7	rsrt78	Digital Signal Processing	6	A1X	2	E



Specialisation: Signal and Image Processing

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

Specialisation: System-on-Chip

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TSTE12	Design of Digital Systems	6	A1X	3	С
TSTE86	Digital Integrated Circuits	6	A1X	2	С
TDTS06	Computer Networks	6	G2X	1	Е
TSKS01	Digital Communication	6	A1X	4	Е
Period 2					
TDTS08	Advanced Computer Architecture	6	A1X	2	С
TFYA39	Semiconductor Technology	6	A1X	3	Е
TSEA81	Computer Engineering and Real-time Systems	6	A1X	4	Е
TSEK02	Radio Electronics	6	A1X	3	Е
TSEK37	Analog CMOS Integrated Circuits	6	A1X	1	Е
TSKS01	Digital Communication	6	A1X	4	E



Specialisation: Theory, Modelling and Visualization

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TFFY54	Quantum Mechanics	6	A1X	2	С
TFYA40	Analytical Mechanics	6	A1X	4	С
TATA75	Theory of Relativity	6	A1X	-	E
TFYA43	Nanotechnology	6	G2X	3	Е
Period 2					
TFYA28	Quantum Dynamics	6	A1X	1	С
TATA75	Theory of Relativity	6	A1X	3	E
TFFY70	Physics of Condensed Matter part I	6	A1X	2	E
TFYA57	Relativistic Quantum Mechanics	6	A1X	3	E

Semester 8 (Spring 2018)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TAMS29	Stochastic Processes Applied to Financial Models	6	A1X	3	E
TANA15	Numerical Linear Algebra	6	A1X	1	Е
TATA27	Partial Differential Equations	6	A1X	2	E
TATA53	Linear Algebra, Honours Course	6*	G2X	-	E
TATA54	Number Theory	6*	G2X	-	E
TATA66	Fourier and Wavelet Analysis	6*	A1X	4	E
TATA78	Complex Analysis, second course	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
ТВМТ09	Physiological Pressures and Flows	6	A1X	1	Е
TDDD76	Software Engineering Project	8*	G2X	2	E
TDTS07	System Design and Methodology	6	A1X	1	E
TEIO20	Entrepreneurship and New Business Development	6*	G2X	4	E



Course code	Course name	Credits	Level	Timetable module	ECV
TFFM40	Analytical Methods in Materials Science	6*	A1X	1	E
TFYA04	Materials Optics	6	A1X	4	E
TFYA21	Physical Metallurgy	6	A1F	3	E
TFYA25	Physics of Condensed Matter part II	6	A1X	2	E
TFYA36	Chaos and Non-Linear Phenomena	6*	A1X	3	E
TFYA71	Cosmology	6*	A1X	3	E
TFYA85	Alternative Energy Sources and their Applications	6	G2X	4	E
TFYY67	Classical Electrodynamics	6	A1X	1	Е
TGTU01	Technology and Ethics	6	G1X	1	E
TGTU91	Oral and Written Communication	6	G1X	2	Е
TKMJ10	Industrial Ecology	6	A1X	1	E
TKMJ15	Environmental Management Strategies	6	G1F	3	E
TMME55	Flight Dynamics	6	A1X	1	E
TMMS30	Multi Body Dynamics and Robotics	6	A1X	3	E
TNM048	Information Visualisation	6	A1X	3	Е
TPPE32	Financial Risk Management	6	A1X	2	E
TSBB15	Computer Vision	12*	A1X	1	Е
TSBK07	Computer Graphics	6*	A1X	4	E
TSBK08	Data Compression	6	A1X	2	E
TSEK06	VLSI Design	12*	A1X	4	E
TSEK38	Radio Frequency Transceiver Design	6	A1X	2	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
TSTE93	Analog Circuits	6*	G2X	1	E
Period 2					
TANA31	Computational Methods for Ordinary and Partial Differential Equations	6	A1X	2	E
TAOP24	Optimization, Advanced Course	6	G2X	1	E
				-	



Course code	Course name	Credits	Level	Timetable module	ECV
TATA53	Linear Algebra, Honours Course	6*	G2X	-	Е
TATA54	Number Theory	6*	G2X	-	Е
TATA66	Fourier and Wavelet Analysis	6*	A1X	2	E
TATA78	Complex Analysis, second course	6*	A1X	3	Е
TBME08	Biomedical Modeling and Simulation	6	A1X	3	E
TBMT26	Technology in Intensive Care and Surgery	6	A1X	1	E
TDDC78	Programming of Parallel Computers - Methods and Tools	6	A1X	3	E
TDDD12	Database Technology	6	G2X	4	E
TDDD76	Software Engineering Project	8*	G2X	2	E
TEAE13	Civil and Commercial Law	6	G1X	2	E
TEIE44	Intellectual Property Rights	4	G1X	1	E
TEIO20	Entrepreneurship and New Business Development	6*	G2X	4	E
TFFM40	Analytical Methods in Materials Science	6*	A1X	1	E
TFMT19	Chemical Sensor Systems	6	A1X	4	Е
TFYA19	Quantum Computers	6	A1X	4	Е
TFYA36	Chaos and Non-Linear Phenomena	6*	A1X	2	E
TFYA38	Optoelectronics	6	A1X	3	E
TFYA41	Thin Film Physics	6	A1X	2	E
TFYA71	Cosmology	6*	A1X	2	E
TGTU76	Philosophy of Science	6	G1X	4	E
TKMJ29	Resource Efficient Products	6	A1N	1	E
TNM079	Modelling and Animation	6	A1X	2	Е
TPPE33	Portfolio Management	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
TSFS03	Vehicle Propulsion Systems	6	A1X	3	E
TSFS06	Diagnosis and Supervision	6	A1N	1	E
TSFS11	Electrical and Energy Technology	6	G2F	4	E
TSKS14	Multiple Antenna Communications	6	A1X	2	E



Course code	Course name	Credits	Level	Timetable module	ECV
TSRT14	Sensor Fusion	6	A1X	2	E
TSTE06	Digital Filters	6	A1X	3	E
TSTE87	Application-Specific Integrated Circuits	6	A1X	2	E
TSTE93	Analog Circuits	6*	G2X	1	E

$Specialisation: Applied\ Mathematics$

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TANA15	Numerical Linear Algebra	6	A1X	1	С
TATA27	Partial Differential Equations	6	A1X	2	E
TATA66	Fourier and Wavelet Analysis	6*	A1X	4	E
TSRT09	Control Theory	6	A1X	3	Е
Period 2					
TAOP24	Optimization, Advanced Course	6	G2X	1	С
TATA66	Fourier and Wavelet Analysis	6*	A1X	2	E
TFYA19	Quantum Computers	6	A1X	4	E

Specialisation: Biomedical Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TBMT02	Medical Imaging	6	A1F	3	С
ТВМТ09	Physiological Pressures and Flows	6	A1X	1	С
TBMI01	Medical Decision Support	6	A1X	4	Е
TBMI03	Medical Information Models and Ontologies	6	A1X	4	E
TBMI26	Neural Networks and Learning Systems	6	A1X	2	Е
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	Е
TSEK38	Radio Frequency Transceiver Design	6	A1X	2	Е
TSKS13	Wireless Communications	6	A1F	4	E
Period 2					
TFYA19	Quantum Computers	6	A1X	4	E
TSBK02	Image and Audio Coding	6	A1X	4	Е
TSKS14	Multiple Antenna Communications	6	A1X	2	E

Specialisation: Control and Information Systems

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TSRT07	Industrial Control Systems	6	A1X	2	С
TSRT09	Control Theory	6	A1X	3	С
Period 2					
TDDD12	Database Technology	6	G2X	4	C/E
TDDC78	Programming of Parallel Computers - Methods and Tools	6	A1X	3	E
TSFS06	Diagnosis and Supervision	6	A1N	1	E
TSRT14	Sensor Fusion	6	A1X	2	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
TSEK06	VLSI Design	12*	A1X	4	C/E
TSEK38	Radio Frequency Transceiver Design	6	A1X	2	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	C/E
TSTE06	Digital Filters	6	A1X	3	E
TSTE93	Analog Circuits	6*	G2X	1	E

Specialisation: Financial Mathematics

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TAMS29	Stochastic Processes Applied to Financial Models	6	A1X	3	С
TANA15	Numerical Linear Algebra	6	A1X	1	С
TPPE32	Financial Risk Management	6	A1X	2	Е
Period 2					
TAOP24	Optimization, Advanced Course	6	G2X	1	E
TPPE33	Portfolio Management	6	A1X	2	E



Specialisation: Materials and Nano Physics

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TFFM40	Analytical Methods in Materials Science	6*	A1X	1	С
TFYA04	Materials Optics	6	A1X	4	E
TFYA21	Physical Metallurgy	6	A1F	3	E
TFYA25	Physics of Condensed Matter part II	6	A1X	2	E
Period 2					
TFFM40	Analytical Methods in Materials Science	6*	A1X	1	С
TFMT19	Chemical Sensor Systems	6	A1X	4	Е
TFYA38	Optoelectronics	6	A1X	3	Е
TFYA41	Thin Film Physics	6	A1X	2	E

Specialisation: Mechatronics

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TMME55	Flight Dynamics	6	A1X	1	E
TMMS30	Multi Body Dynamics and Robotics	6	A1X	3	E
TSFS04	Electrical Drives	6	G2X	4	Е
TSRT07	Industrial Control Systems	6	A1X	2	E
TSRT09	Control Theory	6	A1X	3	Е
Period 2					
TSFS03	Vehicle Propulsion Systems	6	A1X	3	E
TSFS06	Diagnosis and Supervision	6	A1N	1	Е
TSRT14	Sensor Fusion	6	A1X	2	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	Е
TBMT02	Medical Imaging	6	A1F	3	E
TNM048	Information Visualisation	6	A1X	3	E
TSBB15	Computer Vision	12*	A1X	1	Е
TSBK07	Computer Graphics	6*	A1X	4	E
TSBK08	Data Compression	6	A1X	2	Е
Period 2					
TSBB15	Computer Vision	12*	A1X	3	Е
TSBK02	Image and Audio Coding	6	A1X	4	E
TSBK07	Computer Graphics	6*	A1X	1	E
TSRT14	Sensor Fusion	6	A1X	2	E

Specialisation: System-on-Chip

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



Specialisation: Theory, Modelling and Visualization

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TFYY67	Classical Electrodynamics	6	A1X	1	С
TATA27	Partial Differential Equations	6	A1X	2	E
TFYA21	Physical Metallurgy	6	A1F	3	E
TFYA25	Physics of Condensed Matter part II	6	A1X	2	E
TFYA36	Chaos and Non-Linear Phenomena	6*	A1X	3	E
TFYA71	Cosmology	6*	A1X	3	E
TSBK07	Computer Graphics	6*	A1X	4	E
Period 2					
TFYA19	Quantum Computers	6	A1X	4	E
TFYA36	Chaos and Non-Linear Phenomena	6*	A1X	2	E
TFYA71	Cosmology	6*	A1X	2	E
TSBK07	Computer Graphics	6*	A1X	1	E

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Course code	Course name	Credits	Level	Timetable module	ECV
TFYA92	Project Course in Applied Physics, CDIO	12*	A1X	4	E
TMES09	Industrial Energy Systems	6	A1X	3	E
TMMS11	Models of Mechanics	6*	A1X	3	E
TMMV01	Aerodynamics	6	A1X	2	E
TNE071	Microwave Engineering	6	A1X	1	Е
TNE089	Electromagnetic Compatibility (EMC) and Printed Circuit Board (PCB) Design	6*	A1X	2	E
TNM067	Scientific Visualization	6	A1X	3	E
TPPE53	Financial Valuation Methodology	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
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	Е
TSIN01	Information Networks	6	A1X	3	E
TSIT03	Cryptology	6	A1X	2	Е
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
TSTE25	Power Electronics	6	A1X	3	E
Period 2					
TATA32	Discrete Mathematics	8*	G1X	1	E
TATA62	Project - Applied Mathematics	12*	A1X	4	E
TATA75	Theory of Relativity	6*	A1X	3	E
TBMI02	Medical Image Analysis	6	A1X	1	E
TBMT14	Biomedical Engineering - Project Course	12*	A1X	4	E
TDDC88	Software Engineering	12*	A1X	1	E
TDDD49	Programming in C# and .NET Framework	4	G2X	3	E
TDDD56	Multicore and GPU Programming	6	A1X	2	E



Course code	Course name	Credits	Level	Timetable module	ECV
TFYA17	Advanced Project Work in Applied Physics	6*	A1X	-	E
TFYA27	Elementary Particle Physics	6	A1X	2	Е
TFYA28	Quantum Dynamics	6	A1X	1	Е
TFYA50	Project course in Computational Physics CDIO	12*	A1X	4	Е
TFYA57	Relativistic Quantum Mechanics	6	A1X	2	Е
TFYA92	Project Course in Applied Physics, CDIO	12*	A1X	4	Е
TFYY54	Nano Physics	6	A1X	3	Е
TMMS11	Models of Mechanics	6*	A1X	4	E
TNE083	Antenna Theory	6	A1X	2	E
TNE089	Electromagnetic Compatibility (EMC) and Printed Circuit Board (PCB) Design	6*	A1X	1	E
TNM086	Virtual Reality Techniques	6	A1X	2	Е
TPPE61	Financial Optimization	6	A1X	2	Е
TSBB11	Images and Graphics, Project Course CDIO	12*	A1X	4	Е
TSBK03	Advanced Game Programming	6*	A1X	-	Е
TSEA44	Computer Hardware - a System on Chip	6	A1F	1	Е
TSEA84	Digital Design Project	6*	A1X	3	Е
TSKS05	Communication Systems, Project Course	12*	A1X	4	Е
TSRT08	Optimal Control	6	A1X	3	E
TSRT10	Automatic Control - Project Course	12*	A1X	4	Е
TSTE17	System Design	12*	A1F	4	Е
TSTE26	Powergrid and Technology for Renewable Production	6	A1X	3	E
TSTE85	Low Power Electronics	6	A1X	2	E



Specialisation: Applied Mathematics

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TATA62	Project - Applied Mathematics	12*	A1X	4	C/E
TSRT10	Automatic Control - Project Course	12*	A1X	4	C/E
TATA75	Theory of Relativity	6*	A1X	-	E
TATM38	Mathematical Models in Biology	6	A1X	3	Е
TFYA18	Mathematical Methods of Physics	6	A1X	3	E
TFYA40	Analytical Mechanics	6	A1X	2	E
TMMS11	Models of Mechanics	6*	A1X	3	E
TPPE53	Financial Valuation Methodology	6	A1X	2	E
Period 2					
TATA62	Project - Applied Mathematics	12*	A1X	4	C/E
TSRT10	Automatic Control - Project Course	12*	A1X	4	C/E
TATA75	Theory of Relativity	6*	A1X	3	E
TFYA57	Relativistic Quantum Mechanics	6	A1X	2	E
TMMS11	Models of Mechanics	6*	A1X	4	E
TPPE61	Financial Optimization	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
TATM38	Mathematical Models in Biology	6	A1X	3	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
TSKS05	Communication Systems, Project Course	12*	A1X	4	С
TSEK03	Radio Frequency Integrated Circuits	6	A1X	2	E
TSIT03	Cryptology	6	A1X	2	E
TSKS12	Modern Channel Coding, Inference and Learning	6	A1X	1	E
Period 2					
TSKS05	Communication Systems, Project Course	12*	A1X	4	С

Specialisation: Control and Information Systems

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TATA62	Project - Applied Mathematics	12*	A1X	4	C/E
TSRT10	Automatic Control - Project Course	12*	A1X	4	C/E
TDTS06	Computer Networks	6	G2X	1	E
Period 2					
TATA62	Project - Applied Mathematics	12*	A1X	4	C/E
TSRT10	Automatic Control - Project Course	12*	A1X	4	C/E
TSKS11	Networks: Models, Algorithms and Applications	6	G2X	3	E
TSRT08	Optimal Control	6	A1X	3	E



Specialisation: Electronics

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TSTE17	System Design	12*	A1F	4	C/E
TNE071	Microwave Engineering	6	A1X	1	E
TNE089	Electromagnetic Compatibility (EMC) and Printed Circuit Board (PCB) Design	6*	A1X	2	E
TSEA26	Design of Embedded DSP Processor	6	A1X	1	Е
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
TSTE25	Power Electronics	6	A1X	3	E
Period 2					
TSTE17	System Design	12*	A1F	4	C/E
TNE083	Antenna Theory	6	A1X	2	E
TNE089	Electromagnetic Compatibility (EMC) and Printed Circuit Board (PCB) Design	6*	A1X	1	E
TSEA44	Computer Hardware - a System on Chip	6	A1F	1	Е
TSEA84	Digital Design Project	6*	A1X	3	Е
TSTE26	Powergrid and Technology for Renewable Production	6	A1X	3	E
TSTE85	Low Power Electronics	6	A1X	2	Е

$Specialisation: Financial\ Mathematics$

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TATA62	Project - Applied Mathematics	12*	A1X	4	С
TPPE53	Financial Valuation Methodology	6	A1X	2	С
Period 2					
TATA62	Project - Applied Mathematics	12*	A1X	4	С
TPPE61	Financial Optimization	6	A1X	2	С



Specialisation: Materials and Nano Physics

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TFYA50	Project course in Computational Physics CDIO	12*	A1X	4	C/E
TFYA92	Project Course in Applied Physics, CDIO	12*	A1X	4	C/E
TFYA17	Advanced Project Work in Applied Physics	6*	A1X	-	E
TFYA40	Analytical Mechanics	6	A1X	2	E
TFYA91	Quantum Structures: Photonics and Transport	6	A1X	1	Е
Period 2					
TFYY54	Nano Physics	6	A1X	3	С
TFYA50	Project course in Computational Physics CDIO	12*	A1X	4	C/E
TFYA92	Project Course in Applied Physics, CDIO	12*	A1X	4	C/E
TFYA17	Advanced Project Work in Applied Physics	6*	A1X	-	E

Specialisation: Mechatronics

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TSRT10	Automatic Control - Project Course	12*	A1X	4	С
TFYA40	Analytical Mechanics	6	A1X	2	Е
Period 2					
TSRT10	Automatic Control - Project Course	12*	A1X	4	С
TSRT08	Optimal Control	6	A1X	3	E



Specialisation: Signal and Image Processing

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TSBB11	Images and Graphics, Project Course CDIO	12*	A1X	4	С
TNM067	Scientific Visualization	6	A1X	3	Е
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					
TSBB11	Images and Graphics, Project Course CDIO	12*	A1X	4	С
TBMI02	Medical Image Analysis	6	A1X	1	E
TDDD56	Multicore and GPU Programming	6	A1X	2	E
TNM086	Virtual Reality Techniques	6	A1X	2	Е
TSBK03	Advanced Game Programming	6*	A1X	-	Е

Specialisation: System-on-Chip

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



Specialisation: Theory, Modelling and Visualization

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TFYA18	Mathematical Methods of Physics	6	A1X	3	С
TFYA40	Analytical Mechanics	6	A1X	2	С
TFYA50	Project course in Computational Physics CDIO	12*	A1X	4	С
TFYA17	Advanced Project Work in Applied Physics	6*	A1X	-	E
TFYA91	Quantum Structures: Photonics and Transport	6	A1X	1	E
Period 2					
TFYA50	Project course in Computational Physics CDIO	12*	A1X	4	С
TFYA17	Advanced Project Work in Applied Physics	6*	A1X	-	E
TFYA27	Elementary Particle Physics	6	A1X	2	E
TFYA28	Quantum Dynamics	6	A1X	1	E
TFYA57	Relativistic Quantum Mechanics	6	A1X	2	E
TFYY54	Nano Physics	6	A1X	3	E

Semester 10 (Spring 2019)

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

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

