

Electrical Engineering

Study Year 1 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	07/08					
								sp4					
								F	O	L	H	S	
FMAA05	15	G1	-	S	Calculus in One Variable		KS KE U W						
ESS010	15	G1	-	S	Electronics		KS KE U W						
EDA017	9	G1	-	S	Programming, First Course		KS KE U W						
FMA420	6	G1	-	S	Linear Algebra		KS KE U W						
FMA430	6	G1	-	S	Calculus in Several Variables		KS KE U W	50	28	4	0	90	
FAFA01	9	G1	-	S	Physics - Mechanics and Waves		KS KE U W	48	24	18	0	150	

Study Year 2 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	07/08					
								sp4					
								F	O	L	H	S	
FMA037	6	G2	-	S	Complex Analysis	X	KS KE U W						
EIT020	9	G2	-	S	Design of Digital Circuits & A Systems Approach		KS KE U W						
EIT070	6	G2	-	S	Computer Organization		KS KE U W						
ESS020	6	G2	-	S	Analogue Circuits		KS KE U W						
FMA036	7.5	G2	-	S	Linear Analysis		KS KE U W						
ESS030	4.5	G2	-	S	Physics of Devices		KS KE U W						
FMS012	9	G2	-	S	Mathematical Statistics, Basic Course		KS KE U W	36	28	10	0	170	
ESS040	6	G2	X	S	Systems and Signals		KS KE U W	28	28	14	0	70	

[FMA037](#) Complex Analysis: Kurserna [FMA037](#) Komplex analys och [FMA280](#) Funktionsteori är alternativobligatoriska. Endast en av kurserna får ingå i examen.

Study Year 3 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language		Course Name	Links		07/08					
							Footnote							
									F	O	L	H	S	
FRT010	7.5	G2	-	E2		Automatic Control, Basic Course		KS KE U W						
ESS060	4.5	G2	-	S		Electrical Engineering		KS KE U W						
ESS050	9	G2	-	S		Electromagnetic Fields		KS KE U W						
ETS052	4.5	G2	X	E2		Computer Communication		KS KE U W						
ESS070	4.5	G2	-	S		Electrical Measurements		KS KE U W						
ESS081	6	G2	-	S		Analysis: Engineering Aspects of an Application		KS KE U W						
EMN050	6	G2	X	E1		Numerical Analysis		KS KE U W	56	12	28	0	60	

Specialisation bg - Images and Computer Graphics

Course Code	Credits	Cycle	Mand./ Elect.		Language			Course Name	Footnote	Links	sp4				
			Year	From year	S.Ex.	stud.	F				O	L	H	S	
FMA135	6	G1	V	3	2	X	E2	Geometry		KS KE U W					
FMS045	6	G2	V	3	2	-	S	Stationary Stochastic Processes		KS KE U W					
FMA120	6	A	V	3	2	-	S	Matrix Theory		KS KE U W	8	8	0	0	40
ETI270	6	G2	V	3	2	X	E2	Digital Signal Processing in Audio/Video		KS KE U W	24	24	8	0	100
EDA075	7.5	A	V	4	2	X	S	Mobile Graphics		KS KE U W					
FMN100	6	A	V	4	2	X	E1	Numerical Methods in CAGD		KS KE U W					
ETT074	6	A	V	4	2	X	S	Optimum Signal Processing		KS KE U W					
ETT042	6	A	V	4	2	X	E2	Adaptive Signal Processing		KS KE U W					
EDA221	7.5	G2	V	4	2	X	E2	Computer Graphics		KS KE U W					
FAF141	6	G2	V	4	2	X	E	Multi-spectral Imaging		KS KE U W					
FMS150	7.5	A	V	4	2	X	E2	Statistical Image Analysis		KS KE U W					
FMA270	6	A	V	4	2	X	E2	Computer Vision		KS KE U W					
EDA046	7.5	A	V	4	2	X	E2	Game Engine Technology		KS KE U W					
EDA101	7.5	A	V	4	2	X	E2	Advanced Shading and Rendering		KS KE U W	28	0	24	0	120
EITF01	9	G2	V	4	2	X	E	Digital Pictures & Compression		KS KE U W	28	14	0	10	188

Specialisation dps - System on Chips and Processor Design

Course Code	Credits	Cycle	Mand./ Elect.		Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4	F O L H S					
ETI130	6	A	V		3	2	X	E	Digital IC-design		KS KE U W							
EIT090	9	G2	V		3	2	X	E2	Computer Architecture		KS KE U W							
ETI220	6	A	V		3	2	X	E	Integrated A/D and D/A Converters		KS KE U W							
ETI290	6	A	V		3	2	X	E1	Advanced Analogue Design		KS KE U W	28	28	8	0	90		
EIT025	7.5	G2	V		3	2	X	E	Computer Arithmetic		KS KE U W	14	8	8	0	170		
EDA380	6	G2	V		3	2	X	E2	Design of Embedded Systems		KS KE U W	24	0	12	0	110		
ETI200	4.5	A	V		3	2	X	E	System-on-Chip Design		KS KE U W	20	4	16	0	80		
ETI063	6	A	V		4	2	X	E	Analogue IC-design		KS KE U W							
EIT120	7.5	G2	V		4	2	X	E	Introduction to Structured VLSI Design		KS KE U W							
FFF110	7.5	G2	V		4	2	X	E2	Processing and Device Technology		KS KE U W							
FFF021	7.5	A	V		4	2	X	E1	Semiconductor Physics		KS KE U W							
ETI180	6	A	V		4	2	X	E	DSP-design		KS KE U W							
EIT130	12	A	V		4	2	X	E	VLSI Architecture		KS KE U W							
ETIN01	12	A	V		4	2	X	E	IC-project & Verification		KS KE U W	0	0	0	40	40		
ETI135	4.5	A	V		4	2	X	E	Advanced Digital IC Design		KS KE U W							
ETI170	6	A	V		4	2	X	E	Integrated Radio Electronics		KS KE U W							
EDT081	7.5	A	V		4	2	X	E	Computer System Project		KS KE U W	14	0	0	14	170		
EEM060	6	A	V		4	2	X	E2	EMC, Noise and Noise Reduction	X	KS KE U W	0	28	12	60	85		
EDA385	7.5	A	V		4	2	X	E2	Design of Embedded Systems, Advanced Course	X	KS KE U W	Course on hold						

[EEM060](#) EMC, Noise and Noise Reduction: *Omtentamen efter överenskommelse.*

[EDA385](#) Design of Embedded Systems, Advanced Course: *Kursen ges nästa gång hösten 2008.*

Specialisation em - Energy and Environment

Course Code	Credits	Cycle	Mand./ Elect.		Language			Course Name	Footnote	Links	sp4					
			Year	From year	S.Ex.	stud.	F					O	L	H	S	
GEMF01	7.5	G2	V	3	2	-	S	Environmental Science		KS KE U W						
EEM031	7.5	G2	V	3	2	-	S	Transducer Technology	X	KS KE U W						
MVK061	6	A	V	4	2	-	E1	Energy Utilisation		KS KE U W						
TEK070	7.5	G2	V	4	2	-	S	Safety, Health and Environmental Law		KS KE U W						
FMI050	7.5	A	V	4	2	-	S	Energy Systems Analysis: Energy, Environment and Natural Resources		KS KE U W						
FMI055	7.5	A	V	4	2	-	S	Environmental Systems Studies: Life Cycle Analysis		KS KE U W						
EIE015	12	A	V	4	2	X	E1	Power Electronics - Devices, Converters, Control and Applications	X	KS KE U W						
EIE061	7.5	A	V	4	2	X	E1	Project in Industrial Electrical Engineering and Automation	X	KS KE U W						
EIE030	6	A	V	4	2	X	E1	Electric Power Systems		KS KE U W						
MVK071	6	A	V	4	2	-	E1	Energy Supply Systems		KS KE U W						
AEB020	7.5	G2	V	4	2	X	E1	Photovoltaic Systems, Basic Course		KS KE U W						
EIE050	6	A	V	4	2	X	E1	Design of Electrical Machines	X	KS KE U W	0	0	0	20	60	
FMI040	7.5	A	V	4	2	-	S	Energy Systems Analysis: Renewable Sources of Energy		KS KE U W	12	6	0	0	50	
FKF100	7.5	A	V	4	2	X	E1	Methods for Environmental Monitoring		KS KE U W	8	0	4	4	80	
EIE061	7.5	A	V	4	2	X	E1	Project in Industrial Electrical Engineering and Automation	X	KS KE U W	0	0	0	12	88	
KII010	7.5	G2	V	4	2	-	S	Industrial Environmental Management	X	KS KE U W	28	0	0	32	80	

[EEM031](#) Transducer Technology: *Omtentamen enligt överenskommelse.*

[EIE015](#) Power Electronics - Devices, Converters, Control and Applications: *EIE015 får inte ingå i examen tillsammans med någondera av EIE023 Kraftelektronik eller EIE042 Kraftelektronisk reglerteknik.*

[EIE061](#) Project in Industrial Electrical Engineering and Automation: *Kursen ges två gånger per år. Tentamen efter överenskommelse.*

[EIE050](#) Design of Electrical Machines: *Tentamen (för högre betyg) efter överenskommelse.*

[KII010](#) Industrial Environmental Management: *Tentamen enligt överenskommelse.*

Specialisation ks - Communication Systems

Course Code	Credits	Cycle	Mand./ Elect.		Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4				
												F	O	L	H	S
ETS075	4.5	G2	V		3	3	X	S	Queuing System		KS KE U W					
FMS045	6	G2	V		3	2	-	S	Stationary Stochastic Processes		KS KE U W					
ETS190	9	A	V		3	2	X	E	Advanced Telecommunication		KS KE U W	0	10	0	40	70
ETT051	7.5	G2	V		4	2	X	E2	Digital Communications		KS KE U W					
EDI042	7.5	A	V		4	2	X	S	Error Control Coding		KS KE U W					
ETI085	6	A	V		4	2	X	E	Channel Modelling for Wireless Communication		KS KE U W					
EDI051	7.5	G2	V		4	2	X	S	Cryptography		KS KE U W					
ETI051	6	A	V		4	2	X	E	Radio Systems		KS KE U W					
ETT055	9	A	V		4	2	X	E2	Digital Communications, Advanced Course		KS KE U W					
EIT010	7.5	A	V		4	2	X	E	Digital Transmission Engineering		KS KE U W					
EIT150	7.5	G2	V		4	2	-	S	Internet Inside		KS KE U W					
FMA240	6	G2	V		4	2	X	E2	Linear and Combinatorial Optimization		KS KE U W					
ETS110	7.5	A	V		4	2	X	E1	Internet Protocol		KS KE U W	20	0	25	20	100
ETT062	7.5	A	V		4	2	X	E2	Principles of Spread Spectrum Multiple Access Communications		KS KE U W	14	28	0	20	138
ETS061	7.5	A	V		4	2	X	E2	Simulation		KS KE U W	14	8	0	78	40

Specialisation mt - Biomedical Engineering

Course Code	Credits	Cycle	Mand./ Elect.		Language			Course Name	Footnote	Links	sp4				
			Year	From year	S.Ex. stud.	F	O				L	H	S		
FMS045	6	G2	V	3	2	-	S	Stationary Stochastic Processes		KS KE U W					
EEM031	7.5	G2	V	3	2	-	S	Transducer Technology	X	KS KE U W					
TEK290	7.5	G2	V	4	2	X	E1	Biology, Introductory Course		KS KE U W					
EEM040	6	G2	V	4	2	-	S	Biomedical Measurements	X	KS KE U W					
FMA170	6	A	V	4	2	X	E2	Image Analysis		KS KE U W					
ETT074	6	A	V	4	2	X	S	Optimum Signal Processing		KS KE U W					
TNX097	7.5	G2	V	4	2	-	S	Rehabilitation Engineering	X	KS KE U W					
EKFN05	7.5	A	V	4	2	-	E2	Experimental Tools for Subatomic Physics		KS KE U W					
TEK171	7.5	A	V	4	2	-	S	Quantitative Human Physiology		KS KE U W					
FMS150	7.5	A	V	4	2	X	E2	Statistical Image Analysis		KS KE U W					
EEM080	6	A	V	4	2	X	S	Ultrasound Physics and Technology	X	KS KE U W					
GEMA55	6	G1	V	4	2	-	S	Medicine for Engineers		KS KE U W	36	0	0	0	40
FHL110	7.5	A	V	4	2	X	E	Biomechanics		KS KE U W	32	8	0	20	100
ETI160	6	G2	V	4	2	X	E2	Biomedical Signal Processing		KS KE U W	14	14	0	24	80
EEM060	6	A	V	4	2	X	E2	EMC, Noise and Noise Reduction	X	KS KE U W	0	28	12	60	85
FAF150	7.5	A	V	4	2	X	E	Medical Optics	X	KS KE U W	24	15	10	70	80

[EEM031](#) Transducer Technology: *Omtentamen enligt överenskommelse.*

[EEM040](#) Biomedical Measurements: *Omtentamen enligt överenskommelse.*

[TNX097](#) Rehabilitation Engineering: *Nätburen kurs med träffar. Se www.certec.lth.se/ak/*

[EEM080](#) Ultrasound Physics and Technology: *Omtentamen efter överenskommelse.*

[EEM060](#) EMC, Noise and Noise Reduction: *Omtentamen efter överenskommelse.*

[FAF150](#) Medical Optics: *Tentamen (för högre betyg) enligt överenskommelse.*

Specialisation pe - Production Management and Entrepreneurship

Course Code	Credits	Mand./ Elect.		Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4				
		Cycle									F	O	L	H	S
MIO012	6	G1	V	3	2	-	S	Managerial Economics, Basic Course	X	KS KE U W					
MIO012									X						
MIE080	7.5	G2	V	3	2	X	E1	Automation		KS KE U W					
GEMA40	7.5	G1	V	3	1	-	S	Entrepreneurship and Business Development		KS KE U W					
FMS045	6	G2	V	3	2	-	S	Stationary Stochastic Processes		KS KE U W					
MIO022	6	G2	V	3	2	-	S	Management Organization		KS KE U W	30	0	22	8	60
FMS180	6	G2	V	3	2	-	S	Markov Processes		KS KE U W	28	14	6	0	100
FMS051	7.5	A	V	3	2	-	S	Mathematical Statistics, Time Series Analysis		KS KE U W	32	6	12	14	120
MIO040	6	G2	V	4	2	-	S	Managerial Economics, Advanced Course	X	KS KE U W					
FMA051	6	A	V	4	2	X	E1	Optimization		KS KE U W					
ETS032	7.5	G2	V	4	2	-	S	Software Development for Large Systems		KS KE U W					
MIO150	6	A	V	4	2	-	S	Business Marketing		KS KE U W					
MTTF01	5	G2	V	4	2	-	S	Logistics		KS KE U W					
MIO040	6	G2	V	4	2	-	S	Managerial Economics, Advanced Course	X	KS KE U W					
MIO051	6	A	V	4	2	-	S	Production Management		KS KE U W					
MIO090	6	A	V	4	2	-	S	Technology Strategy		KS KE U W					
MIE090	7.5	A	V	4	2	X	E2	Automation for Complex Systems		KS KE U W	42	0	50	20	70
MIO015	6	A	V	4	2	X	S	Industrial Management		KS KE U W	56	0	0	0	104
MTT115	7.5	A	V	4	2	-	S	Industrial Purchasing		KS KE U W	48	10	4	4	130
MIO030	4.5	G2	V	4	2	-	S	Production and Inventory Control		KS KE U W	32	10	4	0	74

[MIO012](#) Managerial Economics, Basic Course: *Kursen ges två gånger per läsår. Endast en av kurserna [MIO012](#) och [MIOA01](#) får ingå i examen.*

[MIO040](#) Managerial Economics, Advanced Course: *Kursen ges två gånger per läsår. Kursomgången med start lp 3 för den som läser TM-avslutningen.*

Specialisation ps - Software in Systems

Course Code	Credits	Cycle	Mand./ Elect.		Language			Links		Footnote	sp4				
			Year	From year	S.Ex. stud.	Course Name	Footnote	F	O		L	H	S		
EDA061	4.5	G2	V	3	2	-	S	Object-oriented Modelling and Design	KS KE U W						
EDA040	6	G2	V	3	2	X	E2	Concurrent Programming	KS KE U W						
EDA145	7.5	A	V	3	2	X	S	Programming Language Theory	KS KE U W		42	14	0	0	144
EDA110	6	A	V	4	2	X	E	Algorithm Theory	KS KE U W						
EDA230	7.5	A	V	4	2	X	S	Optimising Compilers	KS KE U W						
FRTN01	10	A	V	4	2	X	E1	Real-Time Systems	KS KE U W						
EDA240	6	A	V	4	2	X	E2	Configuration Management	KS KE U W						
EDA216	7.5	G2	V	4	2	X	S	Database Technology	KS KE U W						
EDA260	6	G2	V	4	2	-	S	Software Development in Teams ☒ Project	KS KE U W						
FMA240	6	G2	V	4	2	X	E2	Linear and Combinatorial Optimization	KS KE U W						
ETS170	7.5	A	V	4	2	X	S	Requirements Engineering	KS KE U W						
EDA031	7.5	G2	V	4	2	X	S	C++ Programming	KS KE U W		0	0	0	0	60
EDA180	7.5	G2	V	4	2	X	S	Compiler Construction	KS KE U W		0	0	0	0	60
ETS160	6	G2	V	4	2	-	S	Methodology for Software Development	KS KE U W		18	18	0	0	124
EDA050	4.5	G2	V	4	2	X	S	Operating Systems	KS KE U W		24	8	8	0	90
EDAF01	3	G2	V	4	2	X	S	Operating Systems - Project	KS KE U W		4	0	0	0	75
ETS200	7.5	A	V	4	2	X	E1	Software Testing	KS KE U W		14	6	10	90	80

Specialisation ra - Control and Automation

Course Code	Credits	Cycle	Mand./ Elect.		Language			Course Name	Footnote	Links	sp4				
			Year	From year	S.Ex. stud.	F	O				L	H	S		
EDA040	6	G2	V	3	2	X	E2	Concurrent Programming		KS KE U W					
MIE080	7.5	G2	V	3	2	X	E1	Automation		KS KE U W					
FRTN10	7.5	A	V	3	2	X	E1	Multivariable Control		KS KE U W					
FMA120	6	A	V	3	2	-	S	Matrix Theory		KS KE U W	8	8	0	0	40
EIE070	7.5	G2	V	3	2	X	E1	Mechatronics	X	KS KE U W	16	4	0	22	50
FMA051	6	A	V	4	2	X	E1	Optimization		KS KE U W					
EIE075	7.5	A	V	4	2	X	E1	Mechatronics, Advanced Course		KS KE U W					
EIE015	12	A	V	4	2	X	E1	Power Electronics - Devices, Converters, Control and Applications	X	KS KE U W					
FRTN15	7.5	A	V	4	2	X	E1	Predictive Control		KS KE U W					
FRTN01	10	A	V	4	2	X	E1	Real-Time Systems		KS KE U W					
EIE030	6	A	V	4	2	X	E1	Electric Power Systems		KS KE U W					
FRT041	7.5	A	V	4	2	X	E1	System Identification		KS KE U W	0	0	14	0	70
MIE090	7.5	A	V	4	2	X	E2	Automation for Complex Systems		KS KE U W	42	0	50	20	70
FRTN05	7.5	A	V	4	2	X	E1	Non-Linear Control and Servo Systems		KS KE U W	28	28	12	0	112
FRT090	7.5	A	V	4	2	X	E1	Project in Automatic Control		KS KE U W	0	0	0	50	150

[EIE070](#) Mechatronics: *Tentamen (för högre betyg) efter överenskommelse.*

[EIE015](#) Power Electronics - Devices, Converters, Control and Applications: *[EIE015](#) får inte ingå i examen tillsammans med någondera av [EIE023](#) Kraftelektronik eller [EIE042](#) Kraftelektronisk reglerteknik.*

Specialisation rn - Radio and Nanoelectronics

Course Code	Credits	Cycle	Mand./ Elect.		Language			Course Name	Footnote	Links	sp4				
			Year	From year	S.Ex. stud.	F	O				L	H	S		
FAF240	7.5	G1	V	2	2	-	S	Quantum Phenomena and Nanotechnology		KS KE U W					
ETI015	6	G2	V	3	2	-	S	Electromagnetic Fields, Advanced Course		KS KE U W					
ETE100	6	A	V	3	2	X	E2	Antenna Technology	X	KS KE U W	42	0	6	0	100
ETI063	6	A	V	4	2	X	E	Analogue IC-design		KS KE U W					
ETE071	6	A	V	4	2	-	S	Electromagnetic Wave Propagation		KS KE U W					
FAFF01	7.5	G2	V	4	2	X	E	Optics and Optical Design		KS KE U W					
FFF110	7.5	G2	V	4	2	X	E2	Processing and Device Technology		KS KE U W					
ETI031	6	G2	V	4	2	-	E2	Radio		KS KE U W					
FFF021	7.5	A	V	4	2	X	E1	Semiconductor Physics		KS KE U W					
FFF115	7.5	A	V	4	2	X	E2	High Speed Devices		KS KE U W					
ETE091	6	A	V	4	2	X	E1	Microwave Theory	X	KS KE U W					
ETI051	6	A	V	4	2	X	E	Radio Systems		KS KE U W					
ETI032	9	A	V	4	2	-	E2	Radio Electronics		KS KE U W					
ETI170	6	A	V	4	2	X	E	Integrated Radio Electronics		KS KE U W					
FAF095	7.5	A	V	4	2	X	E	Photonics and Optical Communication		KS KE U W					
EEM060	6	A	V	4	2	X	E2	EMC, Noise and Noise Reduction	X	KS KE U W	0	28	12	60	85
FFF160	7.5	A	V	4	2	X	E2	Nanoelectronics		KS KE U W	26	0	12	42	120
ETI041	6	A	V	4	2	-	E2	Radio Project		KS KE U W	6	0	36	0	100

[ETE100](#) Antenna Technology: *Omtentamen efter överenskommelse.*

[ETE091](#) Microwave Theory: *Kursen ges vartannat år.*

[EEM060](#) EMC, Noise and Noise Reduction: *Omtentamen efter överenskommelse.*

Specialisation ss - Signals and Sensors

Course Code	Credits	Cycle	Mand./ Elect.		Language			Course Name	Footnote	Links	sp4				
			Year	From year	S.Ex. stud.	F	O				L	H	S		
FMS045	6	G2	V	3	2	-	S	Stationary Stochastic Processes		KS KE U W					
EEM031	7.5	G2	V	3	2	-	S	Transducer Technology	X	KS KE U W					
ETI270	6	G2	V	3	2	X	E2	Digital Signal Processing in Audio/Video		KS KE U W	24	24	8	0	100
FMS051	7.5	A	V	3	2	-	S	Mathematical Statistics, Time Series Analysis		KS KE U W	32	6	12	14	120
EEM050	6	A	V	3	2	-	E2	Micro Sensors	X	KS KE U W	14	0	28	60	68
EEM070	6	A	V	4	2	X	S	Computerised Measurement Systems	X	KS KE U W					
FAFF01	7.5	G2	V	4	2	X	E	Optics and Optical Design		KS KE U W					
ETT074	6	A	V	4	2	X	S	Optimum Signal Processing		KS KE U W					
ETT042	6	A	V	4	2	X	E2	Adaptive Signal Processing		KS KE U W					
ETI180	6	A	V	4	2	X	E	DSP-design		KS KE U W					
FAFN01	7.5	A	V	4	2	X	E	Lasers		KS KE U W					
EEM080	6	A	V	4	2	X	S	Ultrasound Physics and Technology	X	KS KE U W					
ETI121	6	A	V	4	2	X	E2	Algorithms in Signal Processors & Project Course		KS KE U W					
FKF100	7.5	A	V	4	2	X	E1	Methods for Environmental Monitoring		KS KE U W	8	0	4	4	80
FRT041	7.5	A	V	4	2	X	E1	System Identification		KS KE U W	0	0	14	0	70
EEM060	6	A	V	4	2	X	E2	EMC, Noise and Noise Reduction	X	KS KE U W	0	28	12	60	85
FMS072	7.5	G2	V	4	2	X	E2	Design of Experiments	X	KS KE U W	Course on hold				

[EEM031](#) Transducer Technology: *Omtentamen enligt överenskommelse.*

[EEM050](#) Micro Sensors: *Omtentamen efter överenskommelse.*

[EEM070](#) Computerised Measurement Systems: *Omtentamen efter överenskommelse.*

[EEM080](#) Ultrasound Physics and Technology: *Omtentamen efter överenskommelse.*

[EEM060](#) EMC, Noise and Noise Reduction: *Omtentamen efter överenskommelse.*

[FMS072](#) Design of Experiments: *Periodiserad. Ges nästa gång ht 2008.*

Elective Courses - E

Course Code	Credits	Cycle	Language				Course Name	Footnote	Links								
			Year	From year	S.Ex. stud.												
												F	O	L	H	S	
EXTA10	3	G1	1	1	-	S	Introduction to Chinese Society, Culture and Language		KS	KE	U						
EDA027	7.5	G1	2	2	-	S	Algorithms and Data Structures		KS	KE	U	W					
FMA280	7.5	G2	2	2	-	S	Analytic Functions	X	KS	KE	U	W					
ETI125	4.5	G1	2	2	-	S	Consumer Electronics	X	KS	KE	U	W					
GEMF05	7.5	G2	2	2	-	S	Gender in Science and Engineering		KS	KE	U	W					
GEMA50	4.5	G1	2	1	-	S	History of Technology		KS	KE	U	W					
FMF061	4.5	G2	2	2	-	S	Theory of Relativity		KS	KE	U	W					
FMA021	7.5	A	2	2	-	S	Applied Mathematics	X	KS	KE	U	W	28	14	6	0	80
GEMA45	3	G1	2	2	-	S	Teaching and Learning		KS	KE	U	W	0	2	0	2	40
FMA022	4.5	G2	2	2	-	S	Applied Mathematics	X	KS	KE	U	W	28	14	4	0	74
FMA091	6	G1	2	2	-	S	Discrete Mathematics		KS	KE	U	W	36	28	0	0	104
EDA150	3	G1	3	1	X	S	C Programming	X	KS	KE	U	W					
FMF090	6	G2	3	2	X	E1	Chaos for Science and Technology		KS	KE	U	W					
EDI021	7.5	G2	3	2	X	S	Digital Systems, Project Laboratory	X	KS	KE	U	W					
FMF092	3	A	3	2	X	E1	Project Work in Chaos Theory		KS	KE	U	W					
EDA150	3	G1	3	1	X	S	C Programming	X	KS	KE	U	W					
TEK210	4.5	G1	3	2	-	S	Cognition		KS	KE	U	W					
FRT130	3	G2	3	3	-	E2	Control Theory		KS	KE	U	W					
EDI021	7.5	G2	3	2	X	S	Digital Systems, Project Laboratory	X	KS	KE	U	W					
MIOA01	9	G1	3	2	-	S	Managerial Economics, Basic Course		KS	KE	U	W					
FMA111	6	A	3	2	-	S	Mathematical Structures		KS	KE	U	W					
ETI022	7.5	A	3	2	X	E1	Analogue Project		KS	KE	U	W	0	0	0	40	40
FMA130	6	A	3	2	X	E2	Analytic Functions, Advanced Course		KS	KE	U	W	14	0	0	0	66
EDA132	7.5	G2	3	2	X	S	Applied Artificial Intelligence		KS	KE	U	W	16	0	0	0	100
GEMA65	7.5	G1	3	1	-	S	Chinese for Engineers		KS	KE	U		0	20	0	0	80
FMA115	6	A	3	2	X	E2	Computer Algebra		KS	KE	U	W	14	0	0	0	66
EIT060	7.5	G1	3	2	X	S	Computer Security		KS	KE	U	W	14	0	4	40	50
EDI022	12	G2	3	2	X	S	Digital Systems, Project Laboratory, Extended Version		KS	KE	U	W	0	0	70	0	140
MAM203	7.5	G1	3	2	-	S	Working Environment, Basic Course		KS	KE	U	W	0	0	0	30	65
EDI021	7.5	G2	3	2	X	S	Digital Systems, Project Laboratory	X	KS	KE	U	W	0	0	70	0	140
FHL055	7.5	G1	3	2	-	S	Engineering Mechanics		KS	KE	U	W	42	42	0	0	120

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4				
										F	O	L	H	S
EIT080	7.5	G2	3	2	-	S	Information Theory		KS KE U W	28	28	0	0	56
FMA125	3	A	3	2	-	E1	Matrix Theory, Project		KS KE U W	0	0	0	10	70
EDA095	7.5	G2	3	2	-	S	Network Programming		KS KE U W	28	0	12	4	152
ETSA01	5	G1	3	3	-	S	Software Engineering Process - Methodology		KS KE U W	14	14	0	0	105
ETSA05	4	G1	3	3	-	S	Software Engineering Process - Soft Issues		KS KE U W	10	10	0	0	50
FMN135	7.5	A	4	2	X	E1	Adaptive Methods for Differential Equations		KS KE U W					
FFFN01	7.5	A	4	2	X	E2	Advanced Processing of Nanostructures		KS KE U W					
EDA120	6	G2	4	2	X	E2	Functional Programming		KS KE U W					
MAM061	7.5	G1	4	2	-	S	Human - Computer Interaction		KS KE U W					
EEM055	7.5	A	4	2	X	E2	Microfluidics		KS KE U W					
FMS091	7.5	A	4	2	X	E2	Monte Carlo and Empirical Methods for Stochastic Inference		KS KE U W					
FMNN01	7.5	A	4	4	X	E	Numerical Linear Algebra		KS KE U W					
EIT015	7.5	G2	4	2	X	E2	Secure Systems and Applications		KS KE U W					
FMN145	4.5	A	4	4	X	E1	Simulation Tools		KS KE U W					
GEMA30	4.5	G1	4	1	-	S	Swedish for Engineers	X	KS KE U W					
FRT100	4.5	A	4	2	-	E	Automatic Control, International Project Course		KS KE U W					
GEMA20	7.5	G1	4	1	-	E	English for Engineers	X	KS KE U W					
GEMA05	7.5	G1	4	1	-		French for Engineers: Language, Culture and Society, Second Course		KS KE U W					
FMA260	7.5	A	4	2	X	E2	Functional Analysis and Harmonic Analysis		KS KE U W					
GEMA25	7.5	G1	4	1	-	S	German for Engineers		KS KE U					
EDA171	7.5	A	4	2	X	E2	Language Processing and Computational Linguistics		KS KE U W					
GEMA60	7.5	G1	4	1	-	S	Law for Engineers, Introductory Course in Business Law	X	KS KE U W					
FMA140	6	A	4	2	X	E2	Non-Linear Dynamical Systems		KS KE U W					
FMS110	7.5	A	4	2	X	E1	Non-Linear Time Series Analysis		KS KE U W					
GEMA10	7.5	G1	4	1	-		Spanish for Engineers: Language, Culture and Society, First Course		KS KE U W					
MAM032	7.5	A	4	2	-	S	Working Environment, Project		KS KE U W					
VTA030	4.5	A	4	2	-	S	Engineering Acoustics, Introductory Course		KS KE U					
FMA175	3	A	4	2	X	E1	Image Analysis, Project		KS KE U W					

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4				
										F	O	L	H	S
FMA145	3	A	4	2	X	E1	Non-linear Dynamical Systems, Project		KS KE U W					
FFF165	7.5	A	4	2	X	E	Quantum Mechanics for Applications in Nanoelectronics		KS KE U W					
FMA250	7.5	A	4	2	X	E2	Partial Differential Equations with Distribution Theory		KS KE U W					
EDA340	6	A	4	2	X	E2	Constraint Programming		KS KE U W					
GEMA35	4.5	G1	4	1	-	S	Economics for Engineers		KS KE U W					
ETI280	6	G1	4	2	X	S	Intellectual Property Right Management (IPR)		KS KE U W					
EDI075	6	A	4	2	X	E1	Mathematical Cryptology		KS KE U W					
GEMA30	4.5	G1	4	1	-	S	Swedish for Engineers	X	KS KE U W					
FFF042	7.5	A	4	2	X	E2	The Physics of Low-dimensional Structures and Quantum Devices	X	KS KE U W					
MAM026	4.5	G1	4	2	-	S	Work Organization		KS KE U W					
EDA190	7.5	G2	4	2	-	S	Computer Mechatronics		KS KE U W	9	0	9	8	120
GEMA20	7.5	G1	4	1	-	E	English for Engineers	X	KS KE U W	20	0	0	0	30
AAM010	7.5	G2	4	2	X	E2	Environmental Psychology		KS KE U W	12	18	0	0	30
GEMA01	7.5	G1	4	1	-		French for Engineers: Language, Culture and Society, First Course		KS KE U W	0	26	0	0	60
GEMA60	7.5	G1	4	1	-	S	Law for Engineers, Introductory Course in Business Law	X	KS KE U W	25	0	0	0	75
MAMF01	6	G2	4	4	-	S	Physical Ergonomics		KS KE U W	4	0	0	30	70
TNX153	7.5	G2	4	2	-	S	Rehabilitation Engineering and Design	X	KS KE U W	18	0	0	12	108
GEMA15	7.5	G1	4	1	-		Spanish for Engineers: Language, Culture and Society, Second Course		KS KE U	0	26	0	0	60
VTA060	9	G2	4	2	-	S	Structural Acoustics		KS KE U	14	14	14	0	88
FMA272	3	A	4	2	X	E1	Computer Vision, Project		KS KE U W	0	0	0	10	70
FHL064	7.5	G2	4	2	X	E2	Finite Element Method, Advanced Course		KS KE U W	32	28	0	0	140
EIT140	7.5	A	4	2	X	E	OFDM for Broadband Communication		KS KE U W	14	14	8	0	150
MAM120	7.5	G2	4	2	-	S	Usability Evaluation		KS KE U W	20	8	0	30	142

[FMA280](#) Analytic Functions: Kurserna [FMA037](#) Komplex analys och [FMA280](#) Funktionsteori är alternativobligatoriska. Endast en av kurserna får ingå i examen.

[ETI125](#) Consumer Electronics: Får inte läsas av studenter som tillhör årskull 07/08.

[FMA021](#) Applied Mathematics: *Endast en av kurserna [FMA021](#) Kontinuerliga system respektive [FMA022](#) Kontinuerliga system, allmän kurs får ingå i examen.*

[FMA022](#) Applied Mathematics: *Endast en av kurserna [FMA021](#) Kontinuerliga system respektive [FMA022](#) Kontinuerliga system, allmän kurs får ingå i examen.*

[EDA150](#) C Programming: *Kursen ges två gånger per år, tentamen i varje ordinare period.*

[EDI021](#) Digital Systems, Project Laboratory: *Kursen ges tre gånger per läsår.*

[GEMA30](#) Swedish for Engineers: *Kursen ges två gånger per läsår.*

[GEMA20](#) English for Engineers: *Kursen ges två gånger per läsår.*

[GEMA60](#) Law for Engineers, Introductory Course in Business Law: *Kursen ges två gånger per läsår.*

[FFF042](#) The Physics of Low-dimensional Structures and Quantum Devices: *Omtentamen enligt överenskommelse.*

[TNX153](#) Rehabilitation Engineering and Design: *Nätburen kurs. För information se <http://www.certec.lth.se/learning/fe/>*

Degree Projects - E

The list contains the degree project courses that are included in the E programme.

Links

Course Code	Credits	Course Name	Links
FRT820	30	Degree Project in Automatic Control for Engineers	U
ETS921	30	Degree Project in Communication Systems for Engineers	U W
EDA920	30	Degree Project in Computer Sciences for Engineers	U W
EEM820	30	Degree Project in Electrical Measurements	U
ETI920	30	Degree Project in Electrosience	U
VTA820	30	Degree Project in Engineering Acoustics for Engineers	U
MAM920	30	Degree Project in Ergonomics for Engineers	U W
EIE920	30	Degree Project in Industrial Electrical Engineering and Automation	U
EIT820	30	Degree Project in Information Technology	U
FMS820	30	Degree Project in Mathematical Statistics for Engineers	U
FMA820	30	Degree Project in Mathematics for Engineers	U
FMN820	30	Degree Project in Numerical Analysis	U W
FAF820	30	Degree Project in Physics for Engineers	U
MIO920	30	Degree Project in Production Management	U W
TNS820	30	Degree Project in Rehabilitation Engineering	U W
ETS720	30	Degree Project in Software Engineering	U
FFF820	30	Degree Project in Solid State Physics for Engineers	U
TMA820	30	Degree Project in Technology Management	U