Computer Science and Engineering

Study Year 1, Academic Year 2011/12 (Mandatory Courses)

Course Code	Credits	Cycle	Language S.Ex. stud.	Language	Course Name	Footnote	Links	11/12 sp4
EDA070	3	G1	-	S	Computer Introduction		KS KE U W T	
EDAA05	8	G1	-	S	Computers in Systems		KS KE U W T	
EDA016	7.5	G1	-	S	Programming, First Course		KS KE U W T	
FMAA01	15	G1	-	S	Calculus in One Variable		KS KE U W T	
ETIA01	8	G1	-	S	Electronics		KS KE U W T	1
EDAA01	7.5	G1	-	S	Programming - Second Course		KS KE U W T	
FMA420	6	G1	-	S	Linear Algebra		KS KE U W T	1
ETSA01	5	G1	-	S	Software Engineering Process - Methodology		KS KE U W T	1

Study Year 2, Academic Year 2012/13 (Mandatory Courses)

Course Code	Credits	Cycle	Language S.Ex. stud.	Language	Course Name	Footnote	Links	12/13 sp1	12/13 sp2	12/13 sp3	12/13 sp4
ETS052	4.5	G2	X	E2	Computer Communication		KS KE U W T	1			
EIT020	9	G2	-	S	Design of Digital Circuits – A Systems Approach		KS KE U W T	1	2		
EDAF10	7.5	G2	-	S	Object-oriented Modeling and Discrete Structures		KS KE U W T	1	2		
FMA430	6	G1	-	S	Calculus in Several Variables		KS KE U W T		2		
EDA260	6	G2	-	S	Software Development in Teams – Project		KS KE U W T		2	3	
FMAF10	5	G2	-	S	Applied Mathematics - Linear systems	X	KS KE U W T			3	
EIT070	6	G2	-	S	Computer Organization		KS KE U W T			3	

Course Code	Credits	Cycle	Language S.Ex. stud.	Language	Course Name	Footnote	Links	12/13 sp1	12/13 sp2	12/13 sp3	12/13 sp4
EDAF05	5	G2	-	S	Algorithms, Data Structures and Complexity		KS KE U W T				4
ETI265	7.5	G1	X	S	Signal Processing in Multimedia	X	KS KE U W T				4
ETSA05	4	G1	-	S	Software Engineering Process - Soft Issues		KS KE U W T				4

FMAF10 Applied Mathematics - Linear systems: *Can be replaced by FMAF01 and FMAF05 together. Only one of the courses FMAF10 and FMAF05 may be included in a degree.*
ETI265 Signal Processing in Multimedia: *Students admitted to the China specialisation takes this course in the autumn of year three, in China.*

Study Year 2, Academic Year 2012/13 (Elective Mandatory Courses)

Course Code	Credits	Cycle	Language S.Ex. stud.		Course Name	Footnote	Links			12/13 sp1	12/13 sp2	12/13 sp3	12/13 sp4
FMAF01	7	G2	-	S	Mathematics - Analytic Functions	X	KS	KE	U W T			3	
FMAF05	7	G2	-	S	Mathematics - Systems and Transforms	X	KS	KE	U W T				4

FMAF01 Mathematics - Analytic Functions: *Can together with FMAF05 replace FMAF10. Also given as an elective course in the 4th year.*
FMAF05 Mathematics - Systems and Transforms: *Can together with FMAF01 replace FMAF10. Only one of the courses FMAF05 and FMAF10 may be included in a degree.*

Study Year 3, Academic Year 2013/14 (Mandatory Courses)

Course Code	Credits	Cycle	Language S.Ex. stud.	Language	Course Name	Footnote	Links	13/14 sp1	13/14 sp2	13/14 sp3	13/14 sp4
FRT010	7.5	G2	-	S	Automatic Control, Basic Course		KS KE U W T	1			
EDA040	6	G2	X	E1	Concurrent Programming		KS KE U W T	1	2		
FMS012	9	G2	-	S	Mathematical Statistics, Basic Course		KS KE U W T	1	2		
TEK210	4.5	G1	-	S	Cognition		KS KE U W T		2		
FAFF25	11	G2	-	S	Physics		KS KE U W T		2	3	
EIT060	7.5	G1	X	S	Computer Security		KS KE U W T			3	
FMN011	6	G2	X	E1	Numerical Analysis		KS KE U W T				4

Course Code	Credits	Cycle	Language S.Ex. stud.	Language	Course Name	Footnote	Links	13/14 sp1	13/14 sp2	13/14 sp3	13/14 sp4
ETS075	4.5	G2	X	S	Queuing System		KS KE U W T				4
ETSF01	4	G2	-	S	Software Engineering Process - Economy and Quality		KS KE U W T				4

Specialisation bg - Images and Computer Graphics

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
EDA221	7.5	G2	V	4 - 14/15	4	X	E	Computer Graphics		KS KE U W T	1
FMAN20	7.5	A	V	4 - 14/15	4	X	E1	Image Analysis		KS KE U W T	1
MAMN25	7.5	A	V	4 - 14/15	4	-	S	Interaction Design		KS KE U W T	1
FMSF10	7.5	G2	V	4 - 14/15	4	X	E1	Stationary Stochastic Processes	X	KS KE U W T	1
FMA120	6	A	V	4 - 14/15	4	X	E1	Matrix Theory		KS KE U W T	1
EDAN35	7.5	A	V	4 - 14/15	4	X	E	High Performance Computer Graphics		KS KE U W T	
FAFF20	7.5	G2	V	4 - 14/15	4	X	E	Multi-spectral Imaging		KS KE U W T	
FMAN40	3	A	V	4 - 14/15	4	X	E1	Project in Applied Mathematics		KS KE U W T	
FMA135	6	G1	V	4 - 14/15	4	-	E1	Geometry	X	KS KE U W T	
FMA270	6	A	V	4 - 14/15	4	X	E1	Computer Vision		KS KE U W T	
MAM101	7.5	G2	V	4 - 14/15	4	-	S	Virtual Reality in Theory and Practice		KS KE U W T	
MAMN01	7.5	A	V	4 - 14/15	4	-	S	Advanced Interaction Design		KS KE U T	
ETIF10	7.5	G2	V	4 - 14/15	4	X	E1	Signal Processing - Design and Implementation		KS KE U W T	

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
FMN100	6	A	V	5 - 15/16	4	X	E1	Numerical Methods in CAGD	X	KS KE U W T	1
FMSN20	7.5	A	V	5 - 15/16	4	X	E1	Spatial Statistics with Image Analysis		KS KE U W T	

FMSF10 Stationary Stochastic Processes: *Only one of the courses FMS045 and FMSF10 may be included in a degree.*
FMA135 Geometry: *Please note that the contents of the course are partly (3 credits) the same as in FMN100.*
FMN100 Numerical Methods in CAGD: *Please note that the contents of the course are partly (3 credits) the same as in FMA135.*

Specialisation dpd - Design of Processors and Digital Systems

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
ETIN20	7.5	A	V	4 - 14/15	4	X	E	Digital IC-design		KS KE U W T	1
EITF35	7.5	G2	V	4 - 14/15	4	X	E	Introduction to Structured VLSI Design		KS KE U W T	1
ETIN70	7.5	A	V	4 - 14/15	4	X	E1	Modern Electronics		KS KE U W T	1
ESS050	9	G2	V	4 - 14/15	4	-	E	Electromagnetic Fields		KS KE U W T	1
EITF20	7.5	G2	V	4 - 14/15	4	X	E1	Computer Architecture		KS KE U W T	
EITF40	7.5	G2	V	4 - 14/15	4	X	E1	Digital and Analogue Projects		KS KE U W T	
ETIN45	7.5	A	V	4 - 14/15	4	X	E	DSP-design		KS KE U W T	
ESSF10	5	G2	V	4 - 14/15	4	-	S	Electrical Measurements		KS KE U W T	
ETIN35	7.5	A	V	4 - 14/15	4	X	E	IC-project 1		KS KE U W T	
EDAN15	7.5	A	V	4 - 14/15	4	X	E	Design of Embedded Systems		KS KE U W T	
EDA385	7.5	A	V	5 - 15/16	4	X	E	Design of Embedded Systems, Advanced Course		KS KE U W T	1

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
ETIN40	7.5	A	V	5 - 15/16	4	X	E	IC-project 2		KS KE U W T	1
ETIN55	7.5	A	V	5 - 15/16	4	X	E	Integrated A/D and D/A Converters		KS KE U W T	

Specialisation is - Embedded Systems

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
EDAA25	3	G1	V	4 - 14/15	4	X	S	C Programming		KS KE U W T	1
EDAN65	7.5	A	V	4 - 14/15	4	X	E1	Compilers	X	KS KE U W T	1
EITF35	7.5	G2	V	4 - 14/15	4	X	E	Introduction to Structured VLSI Design		KS KE U W T	1
EDA230	7.5	A	V	4 - 14/15	4	X	S	Optimising Compilers	X	KS KE U W T	1
EIEF01	10	G2	V	4 - 14/15	4	X	E1	Applied Mechatronics		KS KE U W T	1
FRTN01	10	A	V	4 - 14/15	4	X	E1	Real-Time Systems	X	KS KE U W T	1
EITF20	7.5	G2	V	4 - 14/15	4	X	E1	Computer Architecture		KS KE U W T	
FRT090	7.5	A	V	4 - 14/15	4	X	E1	Project in Automatic Control		KS KE U W T	
ETIN80	7.5	A	V	4 - 14/15	4	X	E1	Algorithms in Signal Processors – Project Course		KS KE U W T	
EITN30	7.5	A	V	4 - 14/15	4	-	S	Internet Inside		KS KE U W T	
FRTN01	10	A	V	4 - 14/15	4	X	E1	Real-Time Systems	X	KS KE U W T	

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
EDAN15	7.5	A	V	4 - 14/15	4	X	E	Design of Embedded Systems		KS KE U W T	
EDAF35	7.5	G2	V	4 - 14/15	4	X	S	Operating Systems		KS KE U W T	
EDAN25	6	A	V	4 - 14/15	4	-	S	Multicore Programming	X	KS KE U W T	Course on hold
EDA385	7.5	A	V	5 - 15/16	4	X	E	Design of Embedded Systems, Advanced Course		KS KE U W T	1

EDAN65 Compilers: *Replaces EDA180 Compiler Construction*
EDA230 Optimising Compilers: *The course is offered every other academic year and will be given in 2014/15, 2016/17.*
FRTN01 Real-Time Systems: *The course is offered two times during the academic year 14/15. From the academic year 15/16 the course is given only in the spring semester.*
EDAN25 Multicore Programming: *The course is offered every other academic year and will next be offered in 2015/16.*

Specialisation ks - Communication Systems

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
EITN50	7.5	A	V	4 - 14/15	4	X	E	Advanced Computer Security	X	KS KE U W T	1
ETT051	7.5	G2	V	4 - 14/15	4	X	E	Digital Communications		KS KE U W T	1
FMSF15	7.5	G2	V	4 - 14/15	4	X	E1	Markov Processes		KS KE U W T	1
EITF05	4	G2	V	4 - 14/15	4	-	S	Web Security		KS KE U W T	1
EITN41	7.5	A	V	4 - 14/15	4	-	S	Advanced Web Security		KS KE U W T	
EDIN01	7.5	A	V	4 - 14/15	4	X	E1	Cryptography		KS KE U W T	
ETTN01	7.5	A	V	4 - 14/15	4	X	E	Digital Communications, Advanced Course		KS KE U W T	
ETSF10	7.5	G2	V	4 - 14/15	4	X	E	Internet Protocols		KS KE U W T	
ETSN01	7.5	A	V	4 - 14/15	4	X	E	Advanced Telecommunication		KS KE U W T	
FMAN10	7.5	A	V	4 - 14/15	4	X	E1	Algebraic Structures	X	KS KE U W T	
EITN30	7.5	A	V	4 - 14/15	4	-	S	Internet Inside		KS KE U W T	
EITN45	7.5	A	V	4 - 14/15	4	X	E1	Information Theory		KS KE U T	
ETS061	7.5	A	V	4 - 14/15	4	X	E1	Simulation		KS KE U W T	
EITN21	7.5	A	V	5 - 15/16	4	X	E	Project in Wireless Communications		KS KE U W T	1
EDI042	7.5	A	V	5 - 15/16	4	X	E	Error Control Coding		KS KE U W T	

EITN50 Advanced Computer Security: *Only one of the courses EITN50 and EIT015 may be included in a degree.*
FMAN10 Algebraic Structures: *The date and time of the exam is announced by the course lecturer. The course is to be studied together with MATM11, which is given by the division for Mathematics of the Faculty of Science. Does not follow the study period structure.*

Specialisation pv - Software

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
EDAN55	7.5	A	V	4 - 14/15	4	X	E	Advanced Algorithms		KS KE U W T	1
EDAA25	3	G1	V	4 - 14/15	4	X	S	C Programming		KS KE U W T	1
EDAN65	7.5	A	V	4 - 14/15	4	X	E1	Compilers	X	KS KE U W T	1
EDAN20	7.5	A	V	4 - 14/15	4	X	E	Language Technology		KS KE U W T	1
EDA230	7.5	A	V	4 - 14/15	4	X	S	Optimising Compilers	X	KS KE U W T	1
EDAN40	7.5	A	V	4 - 14/15	4	X	E	Functional Programming		KS KE U W T	
EDAN70	7.5	A	V	4 - 14/15	4	X	E1	Project in Computer Science		KS KE U W T	
EDA132	7.5	G2	V	4 - 14/15	4	X	E	Applied Artificial Intelligence		KS KE U W T	
EDAN01	7.5	A	V	4 - 14/15	4	X	E	Constraint Programming		KS KE U W T	
FMA240	6	G2	V	4 - 14/15	4	X	E1	Linear and Combinatorial Optimization		KS KE U W T	
EDA031	7.5	G2	V	4 - 14/15	4	X	S	C++ Programming		KS KE U W T	
EDA216	7.5	G2	V	4 - 14/15	4	X	S	Database Technology		KS KE U W T	
EDAF15	5	G2	V	4 - 14/15	4	-	S	Algorithm Implementation		KS KE U W T	
FMAA15	7.5	G1	V	4 - 14/15	4	-	S	Discrete Mathematics		KS KE U W T	
EDAN70	7.5	A	V	4 - 14/15	4	X	E1	Project in Computer Science		KS KE U W T	

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
EDAN25	6	A	V	4 - 14/15	4	-	S	Multicore Programming	X	KS KE U W T	**Course on hold**

EDAN65 Compilers: *Replaces EDA180 Compiler Construction*
EDA230 Optimising Compilers: *The course is offered every other academic year and will be given in 2014/15, 2016/17.*
EDAN25 Multicore Programming: *The course is offered every other academic year and will next be offered in 2015/16.*

Specialisation se - Software Engineering

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
EITN50	7.5	A	V	4 - 14/15	4	X	E	Advanced Computer Security	X	KS KE U W T	1
MAMN25	7.5	A	V	4 - 14/15	4	-	S	Interaction Design		KS KE U W T	1
MIO012	6	G1	V	4 - 14/15	4	-	S	Managerial Economics, Basic Course	X	KS KE U W T	1
ETSN05	7.5	A	V	4 - 14/15	4	-	S	Software Development for Large Systems		KS KE U W T	1
FRTN01	10	A	V	4 - 14/15	4	X	E1	Real-Time Systems	X	KS KE U W T	1
EDAN10	7.5	A	V	4 - 14/15	4	X	E	Configuration Management		KS KE U W T	
MIO012	6	G1	V	4 - 14/15	4	-	S	Managerial Economics, Basic Course	X	KS KE U W T	
ETS170	7.5	A	V	4 - 14/15	4	X	S	Requirements Engineering		KS KE U W T	
EDA270	9	A	V	4 - 14/15	4	-	S	Coaching of Programming Teams		KS KE U W T	
EDAN01	7.5	A	V	4 - 14/15	4	X	E	Constraint Programming		KS KE U W T	
ETS200	7.5	A	V	4 - 14/15	4	X	E	Software Testing		KS KE U W T	
EDA031	7.5	G2	V	4 - 14/15	4	X	S	C++ Programming		KS KE U W T	
EDA216	7.5	G2	V	4 - 14/15	4	X	S	Database Technology		KS KE U W T	
FRTN01	10	A	V	4 - 14/15	4	X	E1	Real-Time Systems	X	KS KE U W T	
MIO022	6	G2	V	4 - 14/15	4	-	S	Management Organization		KS KE U W T	

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
MAM120	7.5	G2	V	5 - 15/16	4	-	S	Usability Evaluation		KS KE U W T	1

EITN50 Advanced Computer Security: *Only one of the courses EITN50 and EIT015 may be included in a degree.*
MIO012 Managerial Economics, Basic Course: *Only one of the courses MIO012 and MIOA01 may be included in a degree.*
FRTN01 Real-Time Systems: *The course is offered two times during the academic year 14/15. From the academic year 15/16 the course is given only in the spring semester.*

Specialisation ssr - Systems, Signals and Control

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
ETT051	7.5	G2	V	4 - 14/15	4	X	E	Digital Communications		KS KE U W T	1
FRTN10	7.5	A	V	4 - 14/15	4	X	E1	Multivariable Control		KS KE U W T	1
EITN55	7.5	A	V	4 - 14/15	4	X	E1	Signal Separation - Independent Components		KS KE U W T	1
FMSF10	7.5	G2	V	4 - 14/15	4	X	E1	Stationary Stochastic Processes	X	KS KE U W T	1
FMA120	6	A	V	4 - 14/15	4	X	E1	Matrix Theory		KS KE U W T	1
FRTN01	10	A	V	4 - 14/15	4	X	E1	Real-Time Systems	X	KS KE U W T	1
FRT041	7.5	A	V	4 - 14/15	4	X	E1	System Identification		KS KE U W T	1
ETTN01	7.5	A	V	4 - 14/15	4	X	E	Digital Communications, Advanced Course		KS KE U W T	

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
FMS051	7.5	A	V	4 - 14/15	4	X	E1	Mathematical Statistics, Time Series Analysis		KS KE U W T	
EITN60	7.5	A	V	4 - 14/15	4	X	E	Optimum and Adaptive Signal Processing		KS KE U W T	
FRT090	7.5	A	V	4 - 14/15	4	X	E1	Project in Automatic Control		KS KE U W T	
ETIN80	7.5	A	V	4 - 14/15	4	X	E1	Algorithms in Signal Processors – Project Course		KS KE U W T	
FRTN15	7.5	A	V	4 - 14/15	4	X	E1	Predictive Control		KS KE U W T	
FRTN01	10	A	V	4 - 14/15	4	X	E1	Real-Time Systems	X	KS KE U W T	
BMEN01	7.5	A	V	4 - 14/15	4	X	E1	Biomedical Signal Processing		KS KE U W T	
ETIF10	7.5	G2	V	4 - 14/15	4	X	E1	Signal Processing - Design and Implementation		KS KE U W T	

FMSF10 Stationary Stochastic Processes: *Only one of the courses FMS045 and FMSF10 may be included in a degree.*
FRTN01 Real-Time Systems: *The course is offered two times during the academic year 14/15. From the academic year 15/16 the course is given only in the spring semester.*

Elective Courses - D

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
EXTA10	3	G1	**2** - 12/13	2	-	S	Introduction to Chinese Society, Culture and Language	X	KS KE U T	1
EXTA35	15	G1	**2** - 12/13	2	-	S	Introductory Course in Chinese for Engineers	X	KS KE U T	
EXTF60	15	G2	**3** - 13/14	3	-	E	Introductory Course in Chinese for Engineers, Part 2	X	KS KE U W T	1
FMNN25	7.5	A	**4** - 14/15	4	X	E1	Advanced Course in Numerical Algorithms with Python/SciPy		KS KE U W T	1
MMKF15	7.5	G2	**4** - 14/15	4	X	E1	Applied Robotics		KS KE U W T	1
ETIF05	7.5	G2	**4** - 14/15	4	X	E	Basic Wireless Communication Technique		KS KE U W T	1
FMI050	7.5	A	**4** - 14/15	4	-	S	Energy Systems Analysis: Energy, Environment and Natural Resources		KS KE U W T	1
GEMA20	7.5	G1	**4** - 14/15	1	-	E	English for Engineers	X	KS KE U W T	1

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
FMIF15	7.5	G2	4 - 14/15	4	-	S	Environmental Science		KS KE U W T	1
GEMA25	7.5	G1	4 - 14/15	1	-	S	German for Engineers	X	KS KE U W T	1
EITA05	4.5	G1	4 - 14/15	1	-	S	History of Technology		KS KE U W T	1
GEMA60	7.5	G1	4 - 14/15	1	-	S	Law for Engineers, Introductory Course in Business Law	X	KS KE U W T	1
FMAN15	7.5	A	4 - 14/15	4	X	E	Nonlinear Dynamical Systems		KS KE U W T	1
EIE061	7.5	A	4 - 14/15	4	X	E1	Project in Industrial Electrical Engineering and Automation		KS KE U W T	1
TNX097	7.5	G2	4 - 14/15	4	-	S	Rehabilitation Engineering		KS KE U W T	1

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
MAM032	7.5	A	4 - 14/15	4	-	S	Working Environment, Project		KS KE U W T	1
GEMA70	15	G1	4 - 14/15	1	-	S	Japanese for Engineers	X	KS KE U W T	1
FMAN30	7.5	A	4 - 14/15	4	X	E1	Medical Image Analysis		KS KE U W T	
FRTN05	7.5	A	4 - 14/15	4	X	E1	Non-Linear Control and Servo Systems		KS KE U W T	
FMA051	6	A	4 - 14/15	4	X	E1	Optimization		KS KE U W T	
FMNN05	7.5	A	4 - 14/15	4	X	E1	Simulation Tools		KS KE U W T	
MIE080	7.5	G2	4 - 14/15	4	X	E1	Automation		KS KE U W T	
ETIN10	7.5	A	4 - 14/15	4	X	E	Channel Modelling for Wireless Communication		KS KE U W T	
FRT130	3	G2	4 - 14/15	4	-	S	Control Theory		KS KE U W T	
MIO040	6	G2	4 - 14/15	4	-	S	Managerial Economics, Advanced Course		KS KE U W T	
MIOA01	9	G1	4 - 14/15	4	-	S	Managerial Economics, Basic Course	X	KS KE U W T	
FMA111	6	A	4 - 14/15	4	-	S	Mathematical Structures		KS KE U W T	
FMS091	7.5	A	4 - 14/15	4	X	E1	Monte Carlo and Empirical Methods for Stochastic Inference		KS KE U W T	
ETIA10	7.5	G1	4 - 14/15	4	X	E	Patent and Intellectual Property Rights		KS KE U W T	
MMKN30	7.5	A	4 - 14/15	4	X	E1	Service Robotics		KS KE U W T	
TEK280	7.5	G2	4 - 14/15	4	-	S	Technology Supported Communication		KS KE U W T	
MAMF15	6	G2	4 - 14/15	4	-	S	Work Organization and Management		KS KE U W T	
FMA021	7.5	A	4 - 14/15	4	-	S	Applied Mathematics		KS KE U W T	
FMAN25	7.5	A	4 - 14/15	4	X	E1	Calculus of Variations		KS KE U W T	
GEMA65	7.5	G1	4 - 14/15	1	-	S	Chinese for Engineers	X	KS KE U T	
FMI040	7.5	A	4 - 14/15	4	-	S	Energy Systems Analysis: Renewable Sources of Energy		KS KE U W T	
GEMA20	7.5	G1	4 - 14/15	1	-	E	English for Engineers	X	KS KE U W T	
GEMA40	7.5	G1	4 - 14/15	1	-	S	Entrepreneurship and Business Development	X	KS KE U W T	
GEMA01	7.5	G1	4 - 14/15	1	-	S	French for Engineers: Language, Culture and Society, First Course	X	KS KE U W T	

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
GEMA60	7.5	G1	4 - 14/15	1	-	S	Law for Engineers, Introductory Course in Business Law	X	KS KE U W T	
EIEN01	10	A	4 - 14/15	4	X	E1	Mechatronics, Industrial Product Design		KS KE U W T	
EIE061	7.5	A	4 - 14/15	4	X	E1	Project in Industrial Electrical Engineering and Automation		KS KE U W T	
TNX153	7.5	G2	4 - 14/15	4	-	S	Rehabilitation Engineering and Design		KS KE U W T	
MAM032	7.5	A	4 - 14/15	4	-	S	Working Environment, Project		KS KE U W T	
MIE090	7.5	A	4 - 14/15	4	X	E1	Automation for Complex Systems		KS KE U W T	
FMS072	7.5	G2	4 - 14/15	4	X	E1	Design of Experiments		KS KE U W T	
KII010	7.5	G2	4 - 14/15	4	-	E1	Industrial Environmental Management		KS KE U W T	
FMSN30	7.5	A	4 - 14/15	4	X	E1	Linear and Logistic Regression		KS KE U W T	
MIO040	6	G2	4 - 14/15	4	-	S	Managerial Economics, Advanced Course		KS KE U W T	
FAF150	7.5	A	4 - 14/15	4	X	E	Medical Optics	X	KS KE U W T	
EEMN01	7.5	A	4 - 14/15	4	X	E1	Micro Sensors	X	KS KE U W T	
FRTN30	7.5	A	4 - 14/15	4	X	E	Network Dynamics		KS KE U T	
EDA095	7.5	G2	4 - 14/15	4	-	S	Network Programming		KS KE U W T	
ESS030	4.5	G2	4 - 14/15	4	-	S	Physics of Devices		KS KE U W T	
FMAN35	3	A	4 - 14/15	4	-	E1	Project in Mathematics		KS KE U W T	
ETIN15	7.5	A	4 - 14/15	4	X	E	Radio Systems		KS KE U W T	
FMS155	7.5	A	4 - 14/15	4	X	E1	Statistical Modelling of Extreme Values		KS KE U W T	
FMSN35	7.5	A	4 - 14/15	4	X	E1	Stationary and Non-stationary Spectral Analysis	X	KS KE U W T	**Course on hold**
GEMA55	6	G1	4 - 14/15	1	-	S	Medicine for Engineers	X	KS KE U W T	**Course on hold**
GEMA45	3	G1	4 - 14/15	1	-	S	Teaching and Learning	X	KS KE U W T	**Course on hold**
EITN35	7.5	A	5 - 15/16	4	X	E1	Advanced Course in Electrical and Information Technology	X	KS KE U W T	1
ETTN15	7.5	A	5 - 15/16	4	X	E	Modern Wireless Systems - LTE and Beyond		KS KE U W T	1

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
EITN10	7.5	A	5 - 15/16	4	X	E	Multiple Antenna Systems		KS KE U W T	1
EEM031	7.5	G2	5 - 15/16	4	-	S	Transducer Technology		KS KE U W T	1
EITN35	7.5	A	5 - 15/16	4	X	E1	Advanced Course in Electrical and Information Technology	X	KS KE U W T	
EEMF05	7.5	G2	5 - 15/16	4	-	S	Biomedical Measurements	X	KS KE U W T	
EEMN10	7.5	A	5 - 15/16	4	X	S	Computerised Measurement Systems		KS KE U W T	
EEMN05	7.5	A	5 - 15/16	4	X	E1	EMC, Noise and Noise Reduction		KS KE U W T	
EITN35	7.5	A	5 - 15/16	4	X	E1	Advanced Course in Electrical and Information Technology	X	KS KE U W T	
EEMN15	7.5	A	5 - 15/16	4	X	S	Ultrasound Physics and Technology	X	KS KE U W T	
EITN35	7.5	A	5 - 15/16	4	X	E1	Advanced Course in Electrical and Information Technology	X	KS KE U W T	
MAMN10	7.5	A	5 - 15/16	4	-	S	Interaction 1: Neuro modelling, Cognitive Robotics and Agents	X	KS KE U W T	**Course on hold**
MAMN15	7.5	A	5 - 15/16	4	-	S	Interaction 2: Virtuality and Cognitive Modelling	X	KS KE U W T	**Course on hold**

EXTA10 Introduction to Chinese Society, Culture and Language: *Compulsory for students admitted to the China specialisation.*
EXTA35 Introductory Course in Chinese for Engineers: *Compulsory for students admitted to the China specialisation.*
EXTF60 Introductory Course in Chinese for Engineers, Part 2: *Compulsory for students admitted to the China specialisation. The course is given in China.*
GEMA20 English for Engineers: *LTH common courses (courses where the course code begins with GEM) counts as external elective courses in the degree requirements for students admitted autumn 2011 and later.*
GEMA25 German for Engineers: *LTH common courses (courses where the course code begins with GEM) counts as external elective courses in the degree requirements for students admitted autumn 2011 and later.*
GEMA60 Law for Engineers, Introductory Course in Business Law: *LTH common courses (courses where the course code begins with GEM) counts as external elective courses in the degree requirements for students admitted autumn 2011 and later.*
GEMA70 Japanese for Engineers: *LTH common courses (courses where the course code begins with GEM) counts as external elective courses in the degree requirements for students admitted autumn 2011*

and later.
MIOA01 Managerial Economics, Basic Course: *Only one of the courses MIO012 and MIOA01 may be included in a degree.*
GEMA65 Chinese for Engineers: *LTH common courses (courses where the course code begins with GEM) counts as external elective courses in the degree requirements for students admitted autumn 2011 and later.*
GEMA40 Entrepreneurship and Business Development: *LTH common courses (courses where the course code begins with GEM) counts as external elective courses in the degree requirements for students admitted autumn 2011 and later.*
GEMA01 French for Engineers: Language, Culture and Society, First Course: *LTH common courses (courses where the course code begins with GEM) counts as external elective courses in the degree requirements for students admitted autumn 2011 and later.*
FAF150 Medical Optics: *Examination for higher grade after agreement with the course coordinator.*
EEMN01 Micro Sensors: *Re-examination set by agreement*
FMSN35 Stationary and Non-stationary Spectral Analysis: *The course is offered every other academic year and will next be offered in 2015/16.*
GEMA55 Medicine for Engineers: *The course is offered every other academic year and will next be offered in 2015/16. LTH common courses (courses where the course code begins with GEM) counts as external elective courses in the degree requirements for students admitted autumn 2011 and later.*
GEMA45 Teaching and Learning: *The course is offered every other academic year and will next be offered in 2015/16. LTH common courses (courses where the course code begins with GEM) counts as external elective courses in the degree requirements for students admitted autumn 2011 and later.*
EITN35 Advanced Course in Electrical and Information Technology: *The course starts only after agreement with the department. The course is not linked to any specific study period. The information on hours depends on the course running over a study period. Individual study plans are to be set up and approved.*
EEMF05 Biomedical Measurements: *Reexam date to be set by agreement.*
EEMN15 Ultrasound Physics and Technology: *Re-examination set by agreement.*
MAMN10 Interaction 1: Neuro modelling, Cognitive Robotics and Agents: *The course is offered every other academic year and will be given in 2016/17.*
MAMN15 Interaction 2: Virtuality and Cognitive Modelling: *The course is offered every other academic year and will be given in 2016/17.*

Bachelor's Projects - D

The list contains the bachelor's projects that are included in the D programme. The list is not necessarily complete before the academic year 2016/17.

Course Code	Credits	Course Name	Links
EDAL01	15	Bachelor Project in Computer Science	KS KE U W
EITL01	15	Bachelor Project in Electrical and Information Technology	KS KE U W
FMSL01	15	Bachelor Project in Mathematical Statistics	KS KE U W

Degree Projects - D

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

Course Code	Credits	Course Name	Links
FRT820	30	Degree Project in Automatic Control for Engineers	KS KE U W
EDA920	30	Degree Project in Computer Sciences for Engineers	KS KE U W
EITM01	30	Degree Project in Electrical and Information Technology	KS KE U W
EEM820	30	Degree Project in Electrical Measurements	KS KE U W
EIE920	30	Degree Project in Industrial Electrical Engineering and Automation	KS KE U W
MAMM01	30	Degree Project in Interaction Design	KS KE U W
FMS820	30	Degree Project in Mathematical Statistics for Engineers	KS KE U W
FMA820	30	Degree Project in Mathematics for Engineers	KS KE U W
FMN820	30	Degree Project in Numerical Analysis	KS KE U W
PHYM01	30	Degree Project in Physics	KS KE U W
MIO920	30	Degree Project in Production Management	KS KE U W
TNS820	30	Degree Project in Rehabilitation Engineering	KS KE U W