

# Engineering Mathematics

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

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	11/12 sp4
<a href="#">FMA420</a>	6	G1	-	S	Linear Algebra		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EMAA05</a>	15	G1	-	S	Calculus in One Variable		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMA085</a>	4.5	G1	-	S	Mathematical Communication		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">FMA045</a>	4.5	G1	-	S	Mathematical Modelling		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EDA011</a>	7.5	G1	-	S	Programming, First Course		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMA435</a>	7.5	G1	-	S	Calculus in Several Variables		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">EMEA15</a>	7.5	G1	-	S	Mechanics - Statics and Dynamics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">FAF220</a>	7.5	G1	-	S	Physics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1

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

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	12/13	12/13	12/13	12/13
								sp1	sp2	sp3	sp4
<a href="#">EXTA40</a>	6	G1	-	S	Introduction to Microeconomic Theory		<a href="#">KS KE U W T</a>	1			
<a href="#">EMAF01</a>	7	G2	-	S	Mathematics - Analytic Functions		<a href="#">KS KE U W T</a>	1			
<a href="#">EITF15</a>	6	G2	-	S	Signal Processing - Theory and Applications	X	<a href="#">KS KE U W T</a>	1			
<a href="#">EDAA01</a>	7.5	G1	-	S	Programming - Second Course		<a href="#">KS KE U W T</a>	1	2		
<a href="#">EMAF05</a>	7	G2	-	S	Mathematics - Systems and Transforms		<a href="#">KS KE U W T</a>		2		
<a href="#">EMS012</a>	9	G2	-	S	Mathematical Statistics, Basic Course		<a href="#">KS KE U W T</a>		2	3	
<a href="#">ERT010</a>	7.5	G2	-	E2	Automatic Control, Basic Course		<a href="#">KS KE U W T</a>			3	

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links						
							12/13 sp1	12/13 sp2	12/13 sp3	12/13 sp4			
<a href="#">EMA021</a>	7.5	A	-	S	Applied Mathematics		<a href="#">KS</a>	<a href="#">KE</a>	<a href="#">U</a>	<a href="#">W</a>	<a href="#">T</a>	3	4
<a href="#">EITF15</a>	6	G2	-	S	Signal Processing - Theory and Applications	X	<a href="#">KS</a>	<a href="#">KE</a>	<a href="#">U</a>	<a href="#">W</a>	<a href="#">T</a>		4
<a href="#">FMS045</a>	6	G2	-	S	Stationary Stochastic Processes	X	<a href="#">KS</a>	<a href="#">KE</a>	<a href="#">U</a>	<a href="#">W</a>	<a href="#">T</a>	Course on hold	

[EITF15](#) Signal Processing - Theory and Applications: *The course is moved from year 3 to year 2.*

[FMS045](#) Stationary Stochastic Processes: *The course is transferred from year 2 to year 3.*

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

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links						
							12/13 sp1	12/13 sp2	12/13 sp3	12/13 sp4			
<a href="#">FRT130</a>	3	G2	-	E2	Control Theory		<a href="#">KS</a>	<a href="#">KE</a>	<a href="#">U</a>	<a href="#">W</a>	<a href="#">T</a>	3	
<a href="#">EMA023</a>	3	A	-	E1	Applied Mathematics, Project		<a href="#">KS</a>	<a href="#">KE</a>	<a href="#">U</a>	<a href="#">W</a>	<a href="#">T</a>		4

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

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	13/14	13/14	13/14	13/14
								sp1	sp2	sp3	sp4
<a href="#">ETEF01</a>	7	G2	-	S	Electromagnetic Field Theory		<a href="#">KS KE U W T</a>	1			
<a href="#">EMSF10</a>	7.5	G2	X	E1	Stationary Stochastic Processes		<a href="#">KS KE U W T</a>	1			
<a href="#">EMA120</a>	6	A	X	E1	Matrix Theory		<a href="#">KS KE U W T</a>	1	2		
<a href="#">EMNN10</a>	8	A	X	E1	Numerical Methods for Differential Equations		<a href="#">KS KE U W T</a>		2		
<a href="#">EMIF10</a>	6	G2	-	S	Environmental Systems Studies and Sustainable Development		<a href="#">KS KE U W T</a>		2	3	
<a href="#">EMA111</a>	6	A	-	S	Mathematical Structures		<a href="#">KS KE U W T</a>			3	
<a href="#">EMNN15</a>	4	A	X	E1	Multigrid Methods for Differential Equations		<a href="#">KS KE U W T</a>			3	

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links			
							13/14 sp1	13/14 sp2	13/14 sp3	13/14 sp4
<a href="#">TEK290</a>	7.5	G2	X	E1	Biology, Introductory Course	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>			3	4
<a href="#">EDAF15</a>	5	G2	-	S	Algorithm Implementation	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>				4
<a href="#">ERT095</a>	4.5	A	-	S	Mathematical Modelling, Advanced Course	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>				4

### Specialisation pv - Software

Course Code	Credits	Mand./ Elect.		Year	From year	S.Ex. stud.	Language		Course Name	Footnote	Links	
		Cycle										sp4
<a href="#">EMAN10</a>	7.5	A	V	2 - 12/13	2	X	E1		Algebraic Structures	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EMA051</a>	6	A	V	3 - 13/14	3	X	E1		Optimization		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMA240</a>	6	G2	V	3 - 13/14	3	X	E1		Linear and Combinatorial Optimization		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EDA040</a>	6	G2	O	4 - 14/15	4	X	E1		Concurrent Programming		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">EDAF05</a>	5	G2	O	4 - 14/15	4	X	E1		Algorithms, Data Structures and Complexity		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EDAN55</a>	7.5	A	V	4 - 14/15	4	X	E		Advanced Algorithms		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">EDAN20</a>	7.5	A	V	4 - 14/15	4	X	E		Language Technology		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">FRTN01</a>	10	A	V	4 - 14/15	4	X	E1		Real-Time Systems	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">EDAN10</a>	7.5	A	V	4 - 14/15	4	X	E		Configuration Management		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EDIN01</a>	7.5	A	V	4 - 14/15	4	X	E1		Cryptography		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EDAN40</a>	7.5	A	V	4 - 14/15	4	X	E		Functional Programming		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMNN05</a>	7.5	A	V	4 - 14/15	4	X	E1		Simulation Tools		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EDAN01</a>	7.5	A	V	4 - 14/15	4	X	E		Constraint Programming		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EDA031</a>	7.5	G2	V	4 - 14/15	4	X	S		C++ Programming		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EDA216</a>	7.5	G2	V	4 - 14/15	4	X	S		Database Technology		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FRTN01</a>	10	A	V	4 - 14/15	4	X	E1		Real-Time Systems	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EDAN25</a>	6	A	V	4 - 14/15	4	-	S		Multicore Programming	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	Course on hold

[EMAN10](#) Algebraic Structures: *In Spring 2013 the written exam will take place on the Saturday after the first week in the second study period.*

[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 ssr - Systems, Signals and Control**



Course Code	Credits	Mand./ Elect.		Year	From year	S.Ex. stud.	Language		Course Name	Footnote	Links	
		Cycle										sp4
<a href="#">EMAN10</a>	7.5	A	V	2 - 12/13	2	X	E1		Algebraic Structures	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EMA051</a>	6	A	V	3 - 13/14	3	X	E1		Optimization		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">ETT051</a>	7.5	G2	V	4 - 14/15	4	X	E		Digital Communications		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">FMSF15</a>	7.5	G2	V	4 - 14/15	4	X	E1		Markov Processes		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">FRTN10</a>	7.5	A	V	4 - 14/15	4	X	E1		Multivariable Control		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">EMA260</a>	7.5	A	V	4 - 14/15	4	X	E1		Functional Analysis and Harmonic Analysis		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">EMAN15</a>	7.5	A	V	4 - 14/15	4	X	E		Nonlinear Dynamical Systems		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">FRT041</a>	7.5	A	V	4 - 14/15	4	X	E1		System Identification		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">FMS051</a>	7.5	A	V	4 - 14/15	4	X	E1		Mathematical Statistics, Time Series Analysis		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FRTN05</a>	7.5	A	V	4 - 14/15	4	X	E1		Non-Linear Control and Servo Systems		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EITN60</a>	7.5	A	V	4 - 14/15	4	X	E		Optimum and Adaptive Signal Processing		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	

Course Code	Credits	Mand./ Elect.		Year	From year	S.Ex. stud.	Language		Course Name	Footnote	Links	
		Cycle										
<a href="#">EMSN20</a>	7.5	A	V	4 - 14/15	4	X	E1		Spatial Statistics with Image Analysis		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FRTN15</a>	7.5	A	V	4 - 14/15	4	X	E1		Predictive Control		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EITN45</a>	7.5	A	V	4 - 14/15	4	X	E1		Information Theory		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">T</a>	
<a href="#">ETIF10</a>	7.5	G2	V	4 - 14/15	4	X	E1		Signal Processing - Design and Implementation		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EMSN35</a>	7.5	A	V	4 - 14/15	4	X	E1		Stationary and Non-stationary Spectral Analysis	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	Course on hold

[FMAN10](#) Algebraic Structures: *In Spring 2013 the written exam will take place on the Saturday after the first week in the second study period.*

[EMSN35](#) Stationary and Non-stationary Spectral Analysis: *The course is offered every other academic year and will next be offered in 2015/16.*

### Specialisation bm - Biological and Medical Modelling

Course Code	Credits	Mand./ Elect.		Year	From year	S.Ex. stud.	Language		Course Name	Footnote	Links	
		Cycle										
<a href="#">FMA051</a>	6	A	V	3 - 13/14	3	X	E1		Optimization		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	

### Specialisation bs - Computation and Simulation

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
<a href="#">EMA051</a>	6	A	V	3 - 13/14	3	X	E1	Optimization		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">VSMN25</a>	7.5	A	O	4 - 14/15	4	X	E1	The Finite Element Method - Flow Analysis		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">EDAN55</a>	7.5	A	V	4 - 14/15	4	X	E	Advanced Algorithms		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">EMNN25</a>	7.5	A	V	4 - 14/15	4	X	E1	Advanced Course in Numerical Algorithms with Python/SciPy		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">ETEN05</a>	7.5	A	V	4 - 14/15	4	X	E	Electromagnetic Wave Propagation		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">EMNN01</a>	7.5	A	V	4 - 14/15	4	X	E	Numerical Linear Algebra		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">EMA260</a>	7.5	A	V	4 - 14/15	4	X	E1	Functional Analysis and Harmonic Analysis		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">EMAN15</a>	7.5	A	V	4 - 14/15	4	X	E	Nonlinear Dynamical Systems		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1

Course Code	Credits	Mand./ Elect.		Year	From year	S.Ex. stud.	Language		Course Name	Footnote	Links	
		Cycle										sp4
<a href="#">FHL066</a>	7.5	A	V	4 - 14/15	4	X	S		Finite Element Method for Non-linear Systems		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EMNN05</a>	7.5	A	V	4 - 14/15	4	X	E1		Simulation Tools		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMA250</a>	7.5	A	V	4 - 14/15	4	X	E1		Partial Differential Equations with Distribution Theory	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMS091</a>	7.5	A	V	4 - 14/15	4	X	E1		Monte Carlo and Empirical Methods for Stochastic Inference		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMAN25</a>	7.5	A	V	4 - 14/15	4	X	E1		Calculus of Variations		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">VSMN20</a>	7.5	A	V	4 - 14/15	4	-	S		Software Development for Technical Applications		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	

[FMA250](#) Partial Differential Equations with Distribution Theory: *The course is offered every other academic year and will be given in 2014/15, 2016/17.*

## Specialisation fm - Financial Modelling

Course Code	Credits	Cycle	Mand./ Elect.		Year	From year	S.Ex. stud.	Language		Course Name	Footnote	Links	
<a href="#">FMA051</a>	6	A	V		3 - 13/14	3	X	E1		Optimization		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMA240</a>	6	G2	V		3 - 13/14	3	X	E1		Linear and Combinatorial Optimization		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EXTF45</a>	6	G2	O		4 - 14/15	4	-	S		Financial Management		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EXTP50</a>	7.5	A	V		4 - 14/15	3	-	E		Advanced Microeconomic Analysis		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">TEK110</a>	7.5	A	V		4 - 14/15	4	X	E		Economics, Empirical Finance	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMS161</a>	7.5	A	V		4 - 14/15	4	X	E1		Financial Statistics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMS051</a>	7.5	A	V		4 - 14/15	4	X	E1		Mathematical Statistics, Time Series Analysis		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">TEK180</a>	7.5	A	V		4 - 14/15	4	X	E		Financial Valuation and Risk Management	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMS091</a>	7.5	A	V		4 - 14/15	3	X	E1		Monte Carlo and Empirical Methods for Stochastic Inference		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMSF05</a>	7.5	G2	V		4 - 14/15	4	X	E1		Probability Theory		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EMAN25</a>	7.5	A	V		4 - 14/15	4	X	E1		Calculus of Variations		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FRTN20</a>	7.5	A	V		4 - 14/15	4	X	E1		Market-driven Systems		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMS155</a>	7.5	A	V		4 - 14/15	4	X	E1		Statistical Modelling of Extreme Values		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">TEK103</a>	7.5	A	V		5 - 15/16	4	X	E		Financial Economics, Advanced Course	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">FMSN25</a>	7.5	A	V		5 - 15/16	4	X	E1		Valuation of Derivative Assets		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1

[TEK110](#) Economics, Empirical Finance: *The course is to be studied together with NEKN82, which is given by the Department of Economics. Does not follow the study period structure.*

[TEK180](#) Financial Valuation and Risk Management: *The course is to be studied together with NEKN83, which is given by the Department of Economics. Does not follow the study period structure.*

[TEK103](#) Financial Economics, Advanced Course: *The course is to be studied together with NEKN81, which is given by the Department of Economics. Does not follow the study period structure.*

## Specialisation mrk - Environment, Risk and Climate

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links
<a href="#">EMA051</a>	6	A	V	3 - 13/14	3	X	E1	Optimization		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>

## Specialisation bem - Computational Mechanics

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
<a href="#">VSMN25</a>	7.5	A	O	4 - 14/15	4	X	E1	The Finite Element Method - Flow Analysis		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">FHLN05</a>	7.5	A	V	4 - 14/15	4	-	S	Computational Inelasticity		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">FMEN21</a>	7.5	A	V	4 - 14/15	4	X	E	Continuum Mechanics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">MMV042</a>	9	A	V	4 - 14/15	4	X	E1	Numerical Heat Transfer		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">FHL066</a>	7.5	A	V	4 - 14/15	4	X	S	Finite Element Method for Non-linear Systems		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMEN11</a>	7.5	A	V	4 - 14/15	4	X	E	Mechanical Vibrations		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMA051</a>	6	A	V	4 - 14/15	4	X	E1	Optimization		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">MVK140</a>	7.5	A	V	4 - 14/15	4	X	E	Turbulence – Theory and Modelling		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">MMV211</a>	7.5	G2	V	4 - 14/15	4	X	S	Fluid Mechanics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMEN02</a>	7.5	A	V	4 - 14/15	4	X	E	Multibody Dynamics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">VSMN10</a>	7.5	A	V	4 - 14/15	4	X	E1	Structural Dynamic Computing		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FHLN01</a>	7.5	A	V	4 - 14/15	4	X	E	Structural Optimization		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EMAN25</a>	7.5	A	V	4 - 14/15	4	X	E1	Calculus of Variations		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">MVKN45</a>	7.5	A	V	4 - 14/15	4	X	E	Applied Computational Fluid Mechanics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">MMV031</a>	7.5	G2	V	4 - 14/15	4	X	E1	Heat Transfer		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	

**Specialisation bg - Images and Computer Graphics**



Course Code	Credits	Cycle	Mand./ Elect.		Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
<a href="#">EDA221</a>	7.5	G2	V		4 - 14/15	4	X	E	Computer Graphics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">EMAN20</a>	7.5	A	V		4 - 14/15	4	X	E1	Image Analysis		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">EMSE15</a>	7.5	G2	V		4 - 14/15	4	X	E1	Markov Processes		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">FMNN01</a>	7.5	A	V		4 - 14/15	4	X	E	Numerical Linear Algebra		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">FMN100</a>	6	A	V		4 - 14/15	4	X	E1	Numerical Methods in CAGD		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">EDAN35</a>	7.5	A	V		4 - 14/15	4	X	E	High Performance Computer Graphics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMS051</a>	7.5	A	V		4 - 14/15	4	X	E1	Mathematical Statistics, Time Series Analysis		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EMAN30</a>	7.5	A	V		4 - 14/15	4	X	E1	Medical Image Analysis		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMA051</a>	6	A	V		4 - 14/15	4	X	E1	Optimization		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMSN20</a>	7.5	A	V		4 - 14/15	4	X	E1	Spatial Statistics with Image Analysis		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMA270</a>	6	A	V		4 - 14/15	4	X	E1	Computer Vision		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMA240</a>	6	G2	V		4 - 14/15	4	X	E1	Linear and Combinatorial Optimization		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMS091</a>	7.5	A	V		4 - 14/15	4	X	E1	Monte Carlo and Empirical Methods for Stochastic Inference		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EMAN25</a>	7.5	A	V		4 - 14/15	4	X	E1	Calculus of Variations		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links
<a href="#">ERTN30</a>	7.5	A	V	4 - 14/15	4	X	E	Network Dynamics		<a href="#">KS KE U T</a>

**Specialisation biek - Biological, Ecological and Medical Modelling**

sp4

Course Code	Credits	Cycle	Mand./ Elect.		Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
<a href="#">FHLF05</a>	7.5	G2	V		4 - 14/15	4	X	E	Biomechanics	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">EMAN20</a>	7.5	A	V		4 - 14/15	4	X	E1	Image Analysis		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">EMAN15</a>	7.5	A	V		4 - 14/15	4	X	E	Nonlinear Dynamical Systems		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">FMS051</a>	7.5	A	V		4 - 14/15	4	X	E1	Mathematical Statistics, Time Series Analysis		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EMAN30</a>	7.5	A	V		4 - 14/15	4	X	E1	Medical Image Analysis		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">TEK171</a>	7.5	A	V		4 - 14/15	4	-	S	Quantitative Human Physiology		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMSN20</a>	7.5	A	V		4 - 14/15	4	X	E1	Spatial Statistics with Image Analysis		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">BMEN01</a>	7.5	A	V		4 - 14/15	4	X	E1	Biomedical Signal Processing		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMS072</a>	7.5	G2	V		4 - 14/15	4	X	E1	Design of Experiments		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMSN30</a>	7.5	A	V		4 - 14/15	4	X	E1	Linear and Logistic Regression		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMS155</a>	7.5	A	V		4 - 14/15	4	X	E1	Statistical Modelling of Extreme Values		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">TEK292</a>	7.5	A	V		4 - 14/15	4	-	S	Biological Systems	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	Course on hold
<a href="#">FMSN35</a>	7.5	A	V		4 - 14/15	4	X	E1	Stationary and Non-stationary Spectral Analysis	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	Course on hold
<a href="#">EMAN01</a>	7.5	A	V		4 - 14/15	4	X	E1	Biomathematics	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	Course on hold

[FHLF05](#) Biomechanics: *Replaces the course [FHL110](#).*

[TEK292](#) Biological Systems: *The course is offered every other academic year and will next be offered in 2015/16.*

[FMSN35](#) Stationary and Non-stationary Spectral Analysis: *The course is offered every other academic year and will next be offered in 2015/16.*

[EMAN01](#) Biomathematics: *The course is offered every other academic year and will next be offered in 2015/16.*

## Elective Courses - Pi

Course Code	Credits	Cycle		Language			Course Name	Footnote	Links	sp4
		Year	From year	S.Ex. stud.						
<a href="#">FMA135</a>	6	G1	1 - 11/12	1	X	E2	Geometry		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMA091</a>	6	G1	1 - 11/12	1	-	S	Discrete Mathematics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMAN10</a>	7.5	A	2 - 12/13	2	X	E1	Algebraic Structures	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMF061</a>	4.5	G2	2 - 12/13	2	-	S	Theory of Relativity		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMIF20</a>	7.5	G2	3 - 13/14	3	X	E	Environmental Issues		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">FMA125</a>	3	A	3 - 13/14	3	-	E1	Matrix Theory, Project		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">T</a>	
<a href="#">FMA051</a>	6	A	3 - 13/14	3	X	E1	Optimization		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMA240</a>	6	G2	3 - 13/14	3	X	E1	Linear and Combinatorial Optimization		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMSN05</a>	3	A	3 - 13/14	3	X	E	International Project Course-Mathematical Modelling	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">MMKF15</a>	7.5	G2	4 - 14/15	4	X	E1	Applied Robotics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">EDAA25</a>	3	G1	4 - 14/15	4	X	S	C Programming		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">EDAN65</a>	7.5	A	4 - 14/15	4	X	E1	Compilers	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">ETS052</a>	4.5	G2	4 - 14/15	4	-	S	Computer Communication		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1

Course Code	Credits	Cycle		From year	S.Ex. stud.	Language		Course Name	Footnote	Links	
		Year									sp4
<a href="#">ETIN20</a>	7.5	A	4 - 14/15	4	X	E		Digital IC-design		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">MAMN10</a>	7.5	A	4 - 14/15	4	-	S		Interaction 1: Neuro modelling, Cognitive Robotics and Agents	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">MTTF01</a>	5	G2	4 - 14/15	4	-	S		Logistics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">MIO012</a>	6	G1	4 - 14/15	4	-	S		Managerial Economics, Basic Course	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">KFKA05</a>	7.5	G1	4 - 14/15	4	-	S		Molecular Driving Forces 1: Thermodynamics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">EDA230</a>	7.5	A	4 - 14/15	4	X	S		Optimising Compilers	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">VVRN10</a>	7.5	A	4 - 14/15	4	X	E		Rainfall Runoff Modelling		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1

Course Code	Credits	Cycle		From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
		Year								
<a href="#">EITN55</a>	7.5	A	4 - 14/15	3	X	E1	Signal Separation - Independent Components		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">ETSN05</a>	7.5	A	4 - 14/15	4	-	S	Software Development for Large Systems		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">EMS065</a>	7.5	G2	4 - 14/15	4	-	E1	Statistical Methods for Safety Analysis		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">TEK267</a>	7.5	A	4 - 14/15	4	X	E	Theoretical Biophysics	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">EIEF01</a>	10	G2	4 - 14/15	4	X	E1	Applied Mechatronics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">EIT020</a>	9	G2	4 - 14/15	4	-	S	Design of Digital Circuits – A Systems Approach		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">EMI050</a>	7.5	A	4 - 14/15	4	-	S	Energy Systems Analysis: Energy, Environment and Natural Resources		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1

Course Code	Credits	Cycle		From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
		Year								
<a href="#">GEMA20</a>	7.5	G1	4 - 14/15	1	-	E	English for Engineers	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">GEMA25</a>	7.5	G1	4 - 14/15	1	-	S	German for Engineers	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">EITA05</a>	4.5	G1	4 - 14/15	1	-	S	History of Technology		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">GEMA60</a>	7.5	G1	4 - 14/15	1	-	S	Law for Engineers, Introductory Course in Business Law	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">VBR180</a>	15	A	4 - 14/15	4	-	S	Risk Analysis Methods		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a>	1
<a href="#">GEMA70</a>	15	G1	4 - 14/15	1	-	S	Japanese for Engineers	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">MVKN05</a>	7.5	A	4 - 14/15	4	-	S	Project - Formula Student		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">ETEN10</a>	7.5	A	4 - 14/15	4	X	E	Antenna Technology		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FHLN15</a>	7.5	A	4 - 14/15	4	X	E	Biomechanics, Advanced Course		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">T</a>	



Course Code	Credits	Cycle		Language			Course Name	Footnote	Links	
		Year	From year	S.Ex.	stud.	sp4				
<a href="#">EEMF05</a>	7.5	G2	4 - 14/15	4	-	S	Biomedical Measurements	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">TEK210</a>	4.5	G1	4 - 14/15	4	-	S	Cognition		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EXTN80</a>	7.5	A	4 - 14/15	4	X	E	Economic and Financial Decision-making	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EDI042</a>	7.5	A	4 - 14/15	4	X	E	Error Control Coding		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">MAMN15</a>	7.5	A	4 - 14/15	4	-	S	Interaction 2: Virtuality and Cognitive Modelling	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EITF25</a>	6	G2	4 - 14/15	4	X	E	Internet - Techniques and Applications		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">MIO012</a>	6	G1	4 - 14/15	4	-	S	Managerial Economics, Basic Course	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EXTP15</a>	7.5	A	4 - 14/15	4	-	E	Microeconomics - Individual Choice	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">T</a>	
<a href="#">FHLN10</a>	7.5	A	4 - 14/15	3	X	E	Modern Experimental Mechanics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FAFF20</a>	7.5	G2	4 - 14/15	4	X	E	Multi-spectral Imaging		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FRTF01</a>	5	G2	4 - 14/15	4	X	E	Physiological Models and Computations		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMAN40</a>	3	A	4 - 14/15	4	X	E1	Project in Applied Mathematics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FRT090</a>	7.5	A	4 - 14/15	4	X	E1	Project in Automatic Control		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EDAN70</a>	7.5	A	4 - 14/15	4	X	E1	Project in Computer Science		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FHL105</a>	4.5	G1	4 - 14/15	4	-	S	Solid Mechanics, Basic Course		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMF150</a>	7.5	A	4 - 14/15	4	X	E1	Thermodynamics and Statistical Physics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EDA260</a>	6	G2	4 - 14/15	4	-	S	Software Development in Teams – Project		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">ETIN80</a>	7.5	A	4 - 14/15	4	X	E1	Algorithms in Signal Processors – Project Course		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EDA132</a>	7.5	G2	4 - 14/15	4	X	E	Applied Artificial Intelligence		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EIT070</a>	6	G2	4 - 14/15	4	-	S	Computer Organization		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FFFF01</a>	7.5	G2	4 - 14/15	4	-	S	Electronic Materials		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">MIO040</a>	6	G2	4 - 14/15	4	-	S	Managerial Economics, Advanced Course		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EITN65</a>	7.5	A	4 - 14/15	3	X	E1	Measurement and Modeling of the Central Nervous System Function		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">T</a>	
<a href="#">ETIA10</a>	7.5	G1	4 - 14/15	4	X	E	Patent and Intellectual Property Rights		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">MMKN30</a>	7.5	A	4 - 14/15	3	X	E1	Service Robotics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">ETS200</a>	7.5	A	4 - 14/15	4	X	E	Software Testing		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">GEMA65</a>	7.5	G1	4 - 14/15	1	-	S	Chinese for Engineers	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">T</a>	
<a href="#">FMI040</a>	7.5	A	4 - 14/15	4	-	S	Energy Systems Analysis: Renewable Sources of Energy		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">GEMA20</a>	7.5	G1	4 - 14/15	1	-	E	English for Engineers	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">GEMA40</a>	7.5	G1	4 - 14/15	1	-	S	Entrepreneurship and Business Development	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMIN05</a>	7.5	A	4 - 14/15	4	-	S	Environmental System Studies: Climate, Science and Politics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	

Course Code	Credits	Cycle		Language			Course Name	Footnote	Links	
		Year	From year	S.Ex. stud.						sp4
<a href="#">GEMA01</a>	7.5	G1	4 - 14/15	1	-	S	French for Engineers: Language, Culture and Society, First Course	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">GEMA60</a>	7.5	G1	4 - 14/15	1	-	S	Law for Engineers, Introductory Course in Business Law	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">ETE115</a>	7.5	G2	4 - 14/15	3	-	S	Electromagnetics and Electronics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMI070</a>	7.5	A	4 - 14/15	4	X	E	Environmental Issues, Thematic Course		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FHL090</a>	7.5	A	4 - 14/15	4	X	E1	Fracture Mechanics, Advanced Course		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">MIO040</a>	6	G2	4 - 14/15	4	-	S	Managerial Economics, Advanced Course		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FAF150</a>	7.5	A	4 - 14/15	4	X	E	Medical Optics	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">KFKF01</a>	7.5	G2	4 - 14/15	4	-	S	Molecular Driving Forces 2: Interactions and Dynamics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMEN25</a>	7.5	A	4 - 14/15	4	X	E1	Nano Mechanics and Multiscale Modelling		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EDAE35</a>	7.5	G2	4 - 14/15	4	X	S	Operating Systems		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EDAN70</a>	7.5	A	4 - 14/15	4	X	E1	Project in Computer Science		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMAN35</a>	3	A	4 - 14/15	2	-	E1	Project in Mathematics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">ETS061</a>	7.5	A	4 - 14/15	4	X	E1	Simulation		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">KLG10</a>	7.5	A	4 - 14/15	4	-	S	Chemometrics - Design of Experiments and Multivariate Analysis	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	Course on hold
<a href="#">FMF170</a>	7.5	G2	4 - 14/15	4	X	E	Complex Economy	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	Course on hold
<a href="#">EXTP10</a>	7.5	A	4 - 14/15	4	-	E	Microeconomics - Strategic Interaction	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">T</a>	Course on hold
<a href="#">FMNN15</a>	4	A	4 - 14/15	3	X	E1	Multigrid Methods for Differential Equations	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	Course on hold
<a href="#">GEMA55</a>	6	G1	4 - 14/15	1	-	S	Medicine for Engineers	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	Course on hold
<a href="#">GEMA45</a>	3	G1	4 - 14/15	1	-	S	Teaching and Learning	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	Course on hold
<a href="#">EITN35</a>	7.5	A	5 - 15/16	4	X	E1	Advanced Course in Electrical and Information Technology	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">EITN35</a>								X		
<a href="#">FMSN15</a>	7.5	A	5 - 15/16	5	X	E1	Statistical Modelling of Multivariate Extreme Values		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EITN35</a>	7.5	A	5 - 15/16	4	X	E1	Advanced Course in Electrical and Information Technology	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">MVK135</a>	7.5	A	5 - 15/16	4	X	E	Turbulent Combustion	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	

Course Code	Credits	Cycle		From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
		Year								
<a href="#">EITN35</a>	7.5	A	5 - 15/16	4	X	E1	Advanced Course in Electrical and Information Technology	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	

[FMAN10](#) Algebraic Structures: *In Spring 2013 the written exam will take place on the Saturday after the first week in the second study period.*

[FMSN05](#) International Project Course-Mathematical Modelling: *Limited number of participants. Specific application procedure. The course is given in August.*

[EDAN65](#) Compilers: *Replaces [EDA180](#) Compiler Construction*

[MAMN10](#) Interaction 1: Neuro modelling, Cognitive Robotics and Agents: *The course is offered every other academic year and will be given in 2014/15, 2016/17.*

[MIO012](#) Managerial Economics, Basic Course: *Only one of the courses [MIO012](#) and [MIOA01](#) may be included in a degree.*

[EDA230](#) Optimising Compilers: *The course is offered every other academic year and will be given in 2014/15, 2016/17.*

[TEK267](#) Theoretical Biophysics: *The course is given by the Faculty of Science and does not follow the study period structure.*

[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.*

[EEMF05](#) Biomedical Measurements: *Retake date to be set by agreement.*

[EXTN80](#) Economic and Financial Decision-making: *The course is to be studied together with [NEKN22](#), which is given by the Department of Economics. Does not follow the study period structure.*

[MAMN15](#) Interaction 2: Virtuality and Cognitive Modelling: *The course is offered every other academic year and will be given in 2014/15, 2016/17.*

[EXTP15](#) Microeconomics - Individual Choice: *The course is to be studied together with [NEKP21](#), which is given by the Department of Economics. Does not follow the study period structure.*

[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.*

[KLGN10](#) Chemometrics - Design of Experiments and Multivariate Analysis: *The course is offered every other academic year and will next be offered in 2015/16.*

[FMF170](#) Complex Economy: *The course is offered every other academic year and will next be offered in 2015/16.*

[EXTP10](#) Microeconomics - Strategic Interaction: *The course is offered every other academic year and will be offered again in 2015/16.*

[FMNN15](#) Multigrid Methods for Differential Equations: *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.*

[MVK135](#) Turbulent Combustion: *The course is offered every other academic year and will be given in 2015/16, 2017/18.*

## Bachelor's Projects - Pi

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

### Links

Course Code Credits

Course Name

FMSL01	15	Bachelor Project in Mathematical Statistics	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>
MTTL05	15	Bachelor Project in Packaging Logistics	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>

## Degree Projects - Pi

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

### Links

Course Code	Credits	Course Name	Links
FRT820	30	Degree Project in Automatic Control for Engineers	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>
EDA920	30	Degree Project in Computer Sciences for Engineers	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>
TEK920	30	Degree Project in Ecology	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>
EITM01	30	Degree Project in Electrical and Information Technology	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>
FMS820	30	Degree Project in Mathematical Statistics for Engineers	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>
FMA820	30	Degree Project in Mathematics for Engineers	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>
FMN820	30	Degree Project in Numerical Analysis	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>
PHYM01	30	Degree Project in Physics	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>
FHL820	30	Degree Project in Solid Mechanics for Engineers	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>
VSM920	30	Degree Project in Structural Mechanics for Engineers	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a>