

## Study Handbook

## Syllabus

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# Aerospace Engineering

## Aerospace Engineering TAEEM1

The conditionally elective courses have to be studied in the specialization mentioned beside the cours name.

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">DN2225 Numerical Solutions of Differential Equations</a> <i>Replaces 2D1225.</i>	6	C	24	4	-	12	1	2			
<a href="#">EL1820 Modelling of Dynamical Systems</a> <i>Replaces 2E1282</i>	6	A	24	24	-	12				4	
<a href="#">SD2411 Lightweight Structures and FEM</a> <i>Replaces 4E1111.</i>	8	D	48	-	-	14	1				
<a href="#">SD2600 Aircraft Performance Analysis</a> <i>Replaces 4E1235.</i>	6	D	40	18	-	-	1				
<a href="#">SD2815 Rocket Science</a>	6	D	40	18	-	4			3		
<a href="#">SF2822 Applied Nonlinear Optimization</a> <i>Replaces 5B1817.</i>	7,5	D	24	14	-	-		2			Project assignments
<b>Conditionally Elective Courses</b>											
<a href="#">EL2520 Control Theory and Practice, Advanced Course</a> <i>Replaces 2E1252 Systems</i>	7,5	D	28	26	-	10			3		
<a href="#">SD2413 Fibre Composites - Analysis and Design</a> <i>Replaces 4E1113. Structures</i>	6	D	52	-	-	6		2			
<a href="#">SD2414 Fiber Composites - Materials and Manufacturing</a> <i>Replaces 4E1114. Structures</i>	6	C	40	-	-	8			3	4	

<u>SD2416 Structural Optimisation and Sandwich Design</u> <i>Replaces</i> 4E1116. <i>Structures</i>	6	D	40	-	-	18			3		
<u>SD2610 Computational Aerodynamics</u> <i>Replaces</i> 4E1239. <i>Aeronautics</i>	9	D	56	16	-	16			3	4	
<u>SD2800 Experimental Aerodynamics</u> <i>Replaces</i> 4E1236. <i>Aeronautics</i>	6	D	14	18	-	9			2		
<u>SD2805 Flight Mechanics</u> <i>Replaces</i> 4E1237. <i>Aeronautics</i>	9	D	28	27	-	4			3	4	
<u>SF2812 Applied Linear Optimization*</u> <i>Replaces</i> 5B1815. <i>Systems</i>	7,5	D	24	14	-	-			1		Project assignments
<u>SF2937 Reliability Theory</u> <i>Replaces</i> 5B1537. <i>Systems</i>	7,5	D	-	-	60	-			1		
<b>Elective Courses</b>											
<u>EL2620 Nonlinear Control</u> <i>Replaces</i> 2E1262	7,5	A	28	28	-	8			2		
<u>SD2150 Experimental Structure Dynamics, Project Course</u> <i>Replaces</i> 4B1132.	9	D	-	36	24	8			2	3	
<u>SD2415 Process Modelling for Composite Manufacturing</u> <i>Replaces</i> 4E1115. <i>Not given</i> 07/08.	6	D	18	-	-	18					
<u>SD2605 Project in Aircraft Performance Analysis</u> <i>Replaces</i> 4E1235.	3	D	-	9	-	-			2		
<u>SD2615 Air Traffic Management and Modern Avionics</u>	6	D	22	16	-	8			1		Project work
<u>SE2116 Dynamic Problems in Solid Mechanics</u> <i>Replaces</i> 4C1116.	6	D	42	-	-	8			2	3	
<u>SE2129 Fracture Mechanics and Fatigue</u> <i>Replaces</i> 4C1111.	9	D	48	-	-	4				3	2 written assignments, Project work

<u>SF2827 Topics in Optimization</u> <i>Replaces</i> <i>5B1818.</i> <i>Under</i> <i>bearbetning</i>	7,5	D	12	6	-	-			3	Project assignments
<u>SF2862 Stochastic Decision Support</u> <i>Models</i> <i>Replaces</i> <i>5B1843.</i> <i>Under</i> <i>bearbetning</i>	7,5	D	36	18	-	-			3	Homework assignments
<u>SF2867 Decision Support Methods -</u> <u>Project Course</u> <i>Replaces</i> <i>5B1847.</i>	7,5	D	12	6	-	-			4	Project assignments
<u>SG2215 Compressible Flow</u> <i>Replaces</i> <i>5C1215.</i>	7,5	D	-	-	52	9		2		
<u>SG2219 Advanced Compressible Flows</u> <i>Replaces</i> <i>5C1219.</i>	7,5	D	-	-	48	-		3	4	

\*The course has limited participation

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# Applied Physics

## Applied Physics TAPHM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
<b>Compulsory Courses</b>												
<a href="#">KD2070</a> Technical Surface Colloid Chemistry	6	C	32	6	-	12					4	
<a href="#">SK2300</a> Optical Physics <i>Replaces 5A1511.</i>	6	D	26	14	-	16	1					
<a href="#">SK2310</a> Applied Electromagnetics	6	D	26	10	-	-	1				6 h Seminars	6 h Seminars
<a href="#">SK2530</a> Introduction to Biomedicine <i>Replaces 5A1588.</i>	6	D	28	-	-	-	1	2				
<a href="#">SK2720</a> Condensed Matter Physics	8	D	30	10	-	10		2				
<b>Conditionally Elective Courses</b>												
<a href="#">IO2659</a> Laser Engineering <i>Under bearbetning</i>	7,5	D	24	12	-	8					4	Students from the above programs can register via SK2410 course.
<b>Elective Courses</b>												
<a href="#">BB2260</a> Micro- and Nanotechnologies for Biotechnology <i>Nano phys.</i>	4,5	D	10	-	-	10			3		2 h Study visit	2 h Study visit
<a href="#">EI2420</a> Electromagnetic Wave Propagation <i>Replaces 2H1255 Optical phys.</i>	7,5	A	56	-	-	-			3	4		
<a href="#">HL2006</a> Medical Engineering, Basic Course	7,5	D	-	-	-	-	1					
<a href="#">SD2450</a> Biomechanics and Neuronics <i>Replaces 4E1150. Biol. phys.</i>	6	D	34	-	-	8					4	

<u>SE2121 Introduction to Biomechanics</u> <i>Replaces</i> 4C1121. <i>Biol.</i> <i>phys.</i>	9	C	48	-	-	8				4	
<u>SH2310 Radiation Detectors and Medical Imaging Systems</u> <i>Replaces</i> 5A1414. <i>Biol.</i> <i>phys.</i>	7,5	D	24	-	-	15			3	4	6 h Seminars, 20 h Study visit 6 h Seminars, 20 h Study visit
<u>SH2311 Radiation Sources for Therapy</u> <i>Replaces</i> 5A1416. <i>Biol.</i> <i>phys.</i>	3	D	10	-	-	-				4	14 h Study visit 14 h Study visit
<u>SI2510 Statistical Mechanics</u> <i>Replaces</i> 5A1390. <i>Nano phys.</i>	7,5	D	30	30	-	-				4	
<u>SI2520 Nonequilibrium Statistical Mechanics</u> <i>Replaces</i> 5A1391. <i>Nano phys.</i>	7,5	D	30	-	-	-				4	
<u>SI2530 Computational Physics</u> <i>Replaces</i> 5A1393. <i>Biol.</i> <i>phys.</i> , <i>Optical</i> <i>phys. and</i> <i>Nano phys.</i>	7,5	D	30	-	-	20	2				
<u>SI2550 Membranes and Soft Matter</u> <i>Replaces</i> 5A1395. <i>Biol.</i> <i>phys.</i>	7,5	D	30	-	-	-			3		
<u>SK2301 Optical Physics, Extended Course</u> <i>Replaces</i> 5A1512. <i>Biol.</i> <i>phys. and</i> <i>Optical</i> <i>phys.</i>	3	D	12	6	-	10	1				
<u>SK2320 Problem Solving in Optics</u> <i>Replaces</i> 5A1520. <i>Optical</i> <i>phys.</i>	6	D	-	-	-	-	1	2	3	4	
<u>SK2321 Problem Solving in Optics, Continuation Course 1</u> <i>Replaces</i> 5A1521. <i>Optical</i> <i>phys.</i>	3	D	-	-	-	-			3	4	

<u>SK2350 Optical Measurement Techniques</u> <i>Replaces 5A1510. Optical phys.</i>	6	D	36	-	-	-			3	4	One individual task. Study visits.
<u>SK2400 Quantum Electronics with Electro Optics</u> <i>Replaces 5A1502. Optical phys. and Nano phys.</i>	12	D	48	-	-	-			2		
<u>SK2410 Laser Physics</u> <i>Replaces 5A1800. Optical phys.</i>	6	D	24	12	-	8				4	
<u>SK2500 Physics of Biomedical Microscopy</u> <i>Replaces 5A1582. Biol. phys. and Optical phys.</i>	6	D	28	-	-	20			2		
<u>SK2510 Cellular Biophysics I</u> <i>Replaces 5A1584. Biol. phys. Under bearbetning</i>	8	D	20	-	-	24				3	
<u>SK2511 Cellular Biophysics II</u> <i>Given in period 4 if there is a sufficient demand. Biol. phys. Under bearbetning</i>	6	D	20	-	-	8					4
<u>SK2520 Experimental Methods in Molecular Biophysics</u> <i>Replaces 5A1586. Biol. phys.</i>	8	D	34	-	-	15			2		5 h Study visit 5 h Study visit

<u>SK2521 Fluorescence Spectroscopy for Biomolecular Studies</u> <i>Replaces 5A1587. Given in period 4 if there is a sufficient demand Biol. phys.</i>	6	D	20	-	-	-			4	12 h Seminars 12 h Seminars
<u>SK2540 Physics and Applications of Ultrasound</u> <i>Replaces 5A1595. Biol. phys.</i>	6	D	24	-	-	4			3	
<u>SK2550 X-ray Physics and Applications*</u> <i>Replaces 5A1596. Optical phys. and Nano phys.</i>	6	D	20	-	-	-			3	
<u>SK2710 Spin Electronics</u> <i>Replaces 5A1379. Nano phys.</i>	8	D	24	-	-	4			4	
<u>SK2800 Laser Spectroscopy</u> <i>Replaces 5A1490. Biol. phys. and Optical phys.</i>	8	D	24	-	-	12		2		
<u>SK2810 Femto Chemistry</u> <i>Replaces 5A1491. Biol. phys.</i>	8	D	36	-	-	-			3	
<u>SK2820 Molecular Physics</u> <i>Replaces 5A1495. Optical phys.</i>	8	D	34	10	-	-			3	

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# Biomedical Materials

## Biomedical Materials TBIMM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">HL1010 Systems Biology*<sub>-</sub></a>	7,5	C	32	-	-	25		2			24 h Seminars 24 h Seminars
<a href="#">HL2006 Medical Engineering, Basic Course</a>	7,5	D	-	-	-	-	1				
<a href="#">HX1002 Anatomy, Physiology and Pathology</a>	15	A	-	-	-	-			3	4	
<a href="#">KD2300 Biomedical Materials</a>	7,5	D	30	-	-	25	1				
<a href="#">KF2360 Characterization of Polymers and Advanced Products</a>	7,5	A	31	-	-	-			3		6 h Seminars 6 h Seminars
<i>Under bearbetning</i>											
<a href="#">KF2370 Biological Composites and Implants</a>	7,5	D	-	-	22	25				4	8 h Seminars 8 h Seminars
<a href="#">ME2801 Planning - Developing a Venture*<sub>-</sub></a> <i>Replaces 4D1522. Examiner: Alf Rehn Under bearbetning</i>	7,5	C	22	-	-	-		2			Seminars 4h

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## Master's Progr, Biotechnology

### Master's Progr, Biotechnology TBIOM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">BB2020 Molecular Enzymology</a>	7,5	D	28	8	-	10	2				
<a href="#">BB2040 Biochemical Analyses and Separation Techniques</a>	0		32	-	-	30	2				
<a href="#">BB2080 Biochemical Technology, Theory</a>	7,5	D	40	10	-	-		3	4		
<a href="#">BB2150 Industrial and Environmental Microbiology, Theory</a>	7,5	D	-	-	-	-		3			
<a href="#">BB2160 Structure Biology</a>	7,5	D	30	-	-	22			4	6 h Seminars 6 h Seminars	
<a href="#">BB2170 Drug Development</a>	6	D	36	-	-	-		3		8 h Study visit 8 h Study visit	
<a href="#">BB2240 Introduction to Biotechnology</a>	7,5	C	20	-	-	-	1			20 h Projektuppgift 20 h Projektuppgift	
<a href="#">BB2250 Applied Gene Technology</a>	6	D	18	-	-	-	1				
<a href="#">BB2260 Micro- and Nanotechnologies for Biotechnology</a>	4,5	D	10	-	-	10		3		2 h Study visit 2 h Study visit	
<a href="#">BB2320 Proteomics Technologies</a>	4,5	D	24	-	-	-		3			
<a href="#">DD2396 Bioinformatics</a> <i>Replaces 2D1396.</i>	6	D	32	-	-	16	2				
<a href="#">LI1081 Information Searching for Chemists</a>	1,5	B	-	-	-	-	1			Three laborations on all together 9h. The course is given regularly throughout the year.	



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## Master's Progr, Biotechnology

### Master's Progr, Biotechnology TBIOM2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">AK2036 Theory and Methodology of Science with Applications</a>	7,5	A	-	-	-	-	1				
<a href="#">BB2020 Molecular Enzymology</a>	7,5	D	28	8	-	10				4	
<a href="#">BB2030 Enzymatic Synthesis</a>	7,5	D	20	12	-	20		2			6 h Seminars 6 h Seminars
<a href="#">BB2190 Enzyme Technology</a>	7,5	D	34	-	-	-	1		3		6 h Seminars 6 h Seminars
<a href="#">BB2290 Molecular Biomedicin</a>	7,5	D	30	-	-	-		2			
<a href="#">BB2310 Research Topics in Biotechnology</a>	7,5	D	-	-	-	-		2			
<a href="#">DD2397 Applied Bioinformatics</a> <i>Replaces 2D1397. The course is given for the time 07/08.</i>	7,5	C	20	-	-	20	1				



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# Chemical Science and Engineering

## Chemical Science and Engineering TCSEM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
<b>Compulsory Courses</b>												
<a href="#">AK2036 Theory and Methodology of Science with Applications</a>	7,5	A	-	-	-	-	1					
<a href="#">KD2150 Inorganic Materials Chemistry</a>	7,5	D	20	6	-	15				4		
<a href="#">KF2030 Fiber Technology</a>	6	D	26	-	-	15				4		
<a href="#">KF2330 Concepts of Materials</a>	7,5	A	-	-	-	-	1					
<a href="#">KF2340 Chemical Sciences</a>	15	A	40	-	-	-	1	2			80 h Seminars	80 h Seminars

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# Economics of Innovation and Growth

## Economics of Innovation and Growth TEINM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">AH2001</a> <u>Microeconomics</u> <i>replaces</i> <i>1N1701.</i> <i>(prior</i> <i>level C)</i>	7,5	A	25	25	-	-	1	2			
<a href="#">AH2002</a> <u>Econometrics</u> <i>Replaces</i> <i>1N1702.</i> <i>(prior</i> <i>level C)</i>	7,5	A	25	-	-	24	1				
<a href="#">AH2003</a> <u>Macroeconomics</u> <i>Replaces</i> <i>1N1703.</i> <i>(prior</i> <i>level C)</i>	7,5	A	24	-	-	-		2			Seminars 8h
<a href="#">AH2004</a> <u>Industrial Dynamics</u> <i>Replaces</i> <i>1N1704.</i> <i>(prior</i> <i>level D)</i>	7,5	A	24	-	-	-			3		Seminars 8h
<a href="#">AH2005</a> <u>Financial Economics</u> <i>Replaces</i> <i>1N1705.</i> <i>(prior</i> <i>level D)</i>	7,5	A	24	-	-	-			3		Seminars 8h
<a href="#">AH2006</a> <u>Economic Geography</u> <i>Replaces</i> <i>1N1706.</i> <i>(prior</i> <i>level D)</i>	7,5	A	24	-	-	6				4	Seminars 8h
<a href="#">AH2007</a> <u>International Economics</u> <i>Replaces</i> <i>1N1707.</i> <i>(prior</i> <i>level D)</i>	7,5	A	24	-	-	-				4	Seminars 8h
<a href="#">AH2014</a> <u>Theory and Methodology of Science</u>	7,5	A	30	-	-	-	1				Seminars 14 h

**Elective Courses**

[AH2009 Mathematics for Economic  
Analysis](#)

7,5

A

24

-

-

24

1

2

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# Economics of Innovation and Growth

## Economics of Innovation and Growth TEINM2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">AH200X</a> Degree Project in the Economics of Innovation and Growth (Master of Science)	30	A	-	-	-	-			3	4	
<b>Conditionally Elective Courses</b>											
<a href="#">AH2008</a> Public Economics	7,5	A	30	10	-	-	1				
<a href="#">AH2010</a> Econometrics II	7,5	A	20	-	-	-	1				
<a href="#">AH2011</a> Economics of Innovation	7,5	A	20	-	-	-	1	2			Seminars 20h
<a href="#">AH2012</a> Industrial Organization	7,5	A	20	-	-	-		2			Seminars 10 h
<a href="#">AH2013</a> Microeconomics II	7,5	A	20	-	-	20		2			Tutorials 10 h

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# Master's Progr, Electric Power Engineering

## Master's Progr, Electric Power Engineering TELPM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">EG2020 Power Systems, Basic Course</a> <i>Replaces</i> 2C1115	7,5	A	-	-	70	-	1				
<a href="#">EH2710 Power System Control and Operation</a> <i>Replaces</i> 2C1523	7,5	A	36	10	-	3			4		
<a href="#">EI2433 Electrotechnical Modelling</a> <i>Replaces</i> 2C1133	7,5	A	28	38	-	-	2				
<a href="#">EJ2200 Electrical Machines and Drives</a> <i>Replaces</i> 2C1241	7,5	A	30	20	-	12		3			
<a href="#">EJ2300 Power Electronics</a> <i>Replaces</i> 2C1242	7,5	A	28	20	-	12	1			1 design project	
<b>Elective Courses</b>											
<a href="#">EG2030 Power Systems, Advanced Course</a> <i>Replaces</i> 2C1116	7,5	A	-	-	70	-	2				
<a href="#">EG2040 Wind Power Systems</a> <i>Replaces</i> 2C1117.	7,5	A	60	-	-	-		3	4		
<a href="#">EG2050 Systems Planning</a> <i>Replaces</i> 2C1118. <i>Under bearbetning</i>	7,5	A	64	-	-	3		3			
<a href="#">EG2060 Electricity Market Analysis</a> <i>Replaces</i> 2C1119 <i>Under bearbetning</i>	7,5	A	70	-	-	-			4		

<u><a href="#">EH2730 Requirements Engineering</a></u> <i>Replaces</i> <i>2C1520</i>	7,5	A	22	8	-	-	2			
<u><a href="#">EI2430 High-voltage Engineering</a></u> <i>Replaces</i> <i>2C1132</i>	7,5	A	26	12	-	12			4	Project 50 h
<u><a href="#">EI2440 Electrotechnical Design</a></u> <i>Replaces</i> <i>2C1134</i>	7,5	A	32	-	-	8		3		
<u><a href="#">EI2451 Reliability Evaluation of Electrical Power Systems</a></u>	7,5	A	48	10	-	8	2			
<u><a href="#">EJ2210 Analysis of Electrical Machines</a></u> <i>Replaces</i> <i>2C1148</i>	7,5	A	24	24	-	-			4	
<u><a href="#">EJ2420 Seminars in Electrical Machines and Power Electronics</a></u> <i>Replaces</i> <i>2C1244</i>	1,5	A	16	-	-	-		3	4	
<u><a href="#">EL2620 Nonlinear Control</a></u> <i>Replaces</i> <i>2E1262</i>	7,5	A	28	28	-	8	2			

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							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">AK2030 Theory and Methodology of Science</a>	4,5	A	20	-	-	-	2				Seminars 8h
<b>Elective Courses</b>											
<a href="#">EG2030 Power Systems, Advanced Course</a> <i>Replaces 2C1116</i>	7,5	A	-	-	70	-	2				
<a href="#">EG2070 FACTS and HVDC in Electric Power Systems</a> <i>Replaces 2C1210</i>	7,5	A	-	-	70	4	1				
<a href="#">EG2080 Monte Carlo-methods in Engineering</a> <i>Replaces 2C1211</i> <i>Under bearbetning</i>	6	A	32	-	-	-	2				
<a href="#">EH2720 Management of Projects</a> <i>Replaces 2C1524</i>	7,5	A	32	20	-	-	1				
<a href="#">EH2730 Requirements Engineering</a> <i>Replaces 2C1520</i>	7,5	A	22	8	-	-	2				
<a href="#">EI2451 Reliability Evaluation of Electrical Power Systems</a>	7,5	A	48	10	-	8	2				
<a href="#">EJ2220 Design of Permanent Magnet Synchronous Machines*</a>	6	A	-	-	-	-	1				
<a href="#">EJ2420 Seminars in Electrical Machines and Power Electronics</a> <i>Replaces 2C1244</i>	1,5	A	16	-	-	-	1	2			
<a href="#">EL2620 Nonlinear Control</a> <i>Replaces 2E1262</i>	7,5	A	28	28	-	8	2				

\*The course has limited participation



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# Engineering and Management of Information Systems

## Engineering and Management of Information Systems TEMSM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">IC2002 Philosophy of Science</a> <i>Under bearbetning</i>	7,5	D	-	-	-	-			3		
<a href="#">IC2003 Research Methodology and Scientific Communication</a> <i>Replaces 211531</i> <i>Under bearbetning</i>	7,5	D	18	-	-	-	2				
<a href="#">ID2007 Processes for IT Production</a> <i>Replaces 211420.</i> <i>Under bearbetning</i>	7,5	D	21	-	-	-	1			6 h Seminars 6 h Seminars	
<a href="#">IV2007 Enterprise Computing and ERP Systems</a> <i>Replaces 211228</i> <i>Under bearbetning</i>	7,5	D	14	12	-	60	1			80h	
<a href="#">IV2014 Data Warehousing</a> <i>Replaces 211418</i> <i>Under bearbetning</i>	7,5	D	15	-	2	-		2		9 h Seminars 9 h Seminars	
<b>Conditionally Elective Courses</b>											
<a href="#">EP2300 Management of Networks and Networked Systems</a> <i>The course replaces 2E1632.</i> <i>Under bearbetning</i>	7,5	A	20	-	-	20			4	Project	

<u>ID2006 Software Evolution and Maintenance</u> <i>Replaces</i> 211416 <i>Under bearbetning</i>	7,5	C	24	-	6	-			4	
<u>I12401 Economy and Leadership for Project and Functional Management</u> <i>Replaces</i> 6B3402 <i>Under bearbetning</i>	6	D	-	-	-	-		2		
<u>IV2001 Internet and ERP Systems</u> <i>Replaces</i> 211053 <i>Under bearbetning</i>	7,5	C	12	-	-	-	1			Project work 80 h
<u>IV2002 Internet Search and Monitoring Techniques</u> <i>Replaces</i> 211068 <i>Under bearbetning</i>	7,5	C	-	-	16	-	1			6 assignments
<u>IV2008 Models and Languages for Object and Web Databases</u> <i>Replaces</i> 211242 <i>Under bearbetning</i>	7,5	D	21	40	-	75		3		Studying/Practice 60h
<u>IV2010 Mobile Business</u> <i>Replaces</i> 211406 <i>Under bearbetning</i>	7,5	D	18	12	-	-		3	4	Project work 80 h
<u>IV2011 Current Problems in Information Systems</u> <i>Replaces</i> 211410 <i>Under bearbetning</i>	7,5	D	-	-	-	-				Individual studies
<u>IV2013 Relational Database Design</u> <i>Replaces</i> 211417 <i>Under bearbetning</i>	7,5	C	12	12	9	8		2		
<u>IV2016 Project and Power Games</u> <i>Replaces</i> 211421 <i>Under bearbetning</i>	7,5	D	27	27	-	-			4	
<u>IV2017 Interoperability of Enterprise Systems and Services</u> <i>Replaces</i> 211423 <i>Under bearbetning</i>	7,5	D	12	12	40	18		2		

<u>IV2024 Principles of Computer Security</u> <i>Replaces</i> 211516 <i>Under</i> <i>bearbetning</i>	7,5	D	24	-	10	12	1				
<u>IV2029 Global IT-management</u> <i>Replaces</i> 212121	7,5	D	20	-	-	-		2			15 h Projektuppgift 15 h Projektuppgift
<u>IV2030 Management of IT-enabled Change</u> <i>Replaces</i> 212125. <i>The</i> <i>course</i> <i>not given</i> 07/08.	7,5	D	20	-	-	-			3		15 h Projektuppgift Only one of I11210 and IV2030 may be taken. 15 h Projektuppgift
<u>IV2031 Strategic Management of IT</u> <i>Replaces</i> 212126	7,5	D	20	-	-	-				4	15 h Projektuppgift 15 h Projektuppgift
<u>IV2033 Decision and Risk Analysis</u> <i>Under</i> <i>bearbetning</i>	7,5	D	-	-	-	-			3		
<u>IV2034 Systems Theory and IT</u> <i>Replaces</i> IV1012. <i>Under</i> <i>bearbetning</i>	7,5	D	-	-	-	-			3		
<u>IV2035 Organisations, IT-Systems and Management</u> <i>Replaces</i> IV2004. <i>Under</i> <i>bearbetning</i>	7,5	D	-	-	-	-				4	

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## Master's Progr, Engineering Mechanics

### Master's Progr, Engineering Mechanics TTEMM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">SE1025 FEM for Engineering Applications</a> <i>Replaces 4C1025.</i>	6	C	36	14	-	4	1				
<a href="#">SG2212 Computational Fluid Dynamics</a> <i>Replaces 5C1212.</i>	7,5	D	-	-	50	10		3			
<a href="#">SG2214 Fluid Mechanics</a> <i>Under bearbetning</i>	7,5	C	-	30	30	3	1				
<b>Elective Courses</b>											
<a href="#">SE2116 Dynamic Problems in Solid Mechanics</a> <i>Replaces 4C1116.</i>	6	D	42	-	-	8		2	3		
<a href="#">SE2121 Introduction to Biomechanics</a> <i>Replaces 4C1121.</i>	9	C	48	-	-	8				4	
<a href="#">SE2122 Applied Solid Mechanics</a> <i>Replaces 4C1122.</i>	9	D	28	16	-	24	1	2			
<a href="#">SE2123 Testing Techniques in Solid Mechanics</a> <i>Replaces 4C1123.</i>	6	D	24	-	-	24				4	
<a href="#">SE2125 Solid Mechanics Modelling for Design</a> <i>Replaces 4C1125.</i>	9	D	60	-	-	12				4	
<a href="#">SE2129 Fracture Mechanics and Fatigue</a> <i>Replaces 4C1111.</i>	9	D	48	-	-	4			3		2 written assignments, Project work
<a href="#">SG2211 Vehicle Aerodynamics</a> <i>Replaces 5C1211.</i>	6	C	28	-	-	4				4	8 h Seminars 8 h Seminars

<u>SG2213 Applied Computational Fluid Dynamics</u> <i>Replaces 5C1213.</i>	3	D	-	-	16	14				4	
<u>SG2215 Compressible Flow</u> <i>Replaces 5C1215.</i>	7,5	D	-	-	52	9		2			
<u>SG2218 Turbulence</u> <i>Replaces 5C1218.</i>	7,5	D	-	-	36	3			3	4	
<u>SG2219 Advanced Compressible Flows</u> <i>Replaces 5C1219.</i>	7,5	D	-	-	48	-			3	4	
<u>SG2221 Wave Motions and Hydrodynamic Stability</u> <i>Replaces 5C1221.</i>	7,5	D	-	-	42	3		2			
<u>SG2860 FEM Modelling</u> <i>Replaces 5C1860.</i>	8	D	33	-	-	-		2			33 h Workshop 33 h Workshop
<u>SG2870 Non - Linear Finite Element Methods</u>	7	D	30	-	-	-		2			

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## Master's Progr, Engineering Mechanics

### Master's Progr, Engineering Mechanics TTEMM2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">AK2030</a> Theory and Methodology of Science	4,5	A	20	-	-	-	2				Seminars 8h
<a href="#">SE2126</a> Material Mechanics <i>Replaces 4C1126.</i>	9	D	60	-	-	15	1	2			
<a href="#">SG2127</a> Research Methodology in Mechanics <i>Under bearbetning</i>	3	D	-	-	10	-	1				
<a href="#">SG2150</a> Rigid Body Dynamics <i>Replaces 5C1150.</i>	7	D	-	30	-	-	1				
<b>Elective Courses</b>											
<a href="#">SE2122</a> Applied Solid Mechanics <i>Replaces 4C1122.</i>	9	D	28	16	-	24	1	2			
<a href="#">SG2151</a> Modern Multibody Dynamics <i>Replaces 5C1151.</i>	8	D	30	-	-	-	2				
<a href="#">SG2215</a> Compressible Flow <i>Replaces 5C1215.</i>	7,5	D	-	-	52	9	2				
<a href="#">SG2221</a> Wave Motions and Hydrodynamic Stability <i>Replaces 5C1221.</i>	7,5	D	-	-	42	3	2				
<a href="#">SG2860</a> FEM Modelling <i>Replaces 5C1860.</i>	8	D	33	-	-	-	2				33 h Workshop 33 h Workshop
<a href="#">SG2870</a> Non - Linear Finite Element Methods	7	D	30	-	-	-	2				



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# Environmental Engineering and Sustainable Infrastructure

## Environmental Engineering and Sustainable Infrastructure TEESM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">AE2501 Environmental Impact Assessment*</a> <i>Replaces 1B1634. (prior level C)</i> <i>Under bearbetning</i>	7,5	A	30	26	-	-	1				8h Excursion
<a href="#">AG2142 Political Economy for Environmental Planners*</a> <i>First prio: Students within TEESM-program. Second prio: Incoming exchange-students S. Replaces 1H1142. (prior level C)</i> <i>Under bearbetning</i>	7,5	A	30	6	-	-	1				8h Seminars
<b>Conditionally Elective Courses</b>											
<a href="#">AE2101 Environmental Dynamics/ Chemical Processes</a> <i>Replaces 1B1291. (prior level C)</i> <i>Under bearbetning</i>	7,5	A	24	-	-	-	2				Exercises/lab.work 30h

<u>AE2104 Environmental Measuring and Monitoring</u> <i>Under bearbetning</i>	7,5	A	22	40	-	4			4	Field exercise 18h
<u>AE2201 Environmental Dynamics/ Physical Processes</u> <i>Replaces 1B1292. (prior level C)</i>	7,5	A	26	24	-	8		2		
<u>AE2301 Water and Waste Handling</u> <i>Replaces 1B1233. (prior level C)</i>	7,5	A	40	-	-	-			3	8 h ExkursionTutorials 16h 8 h Exkursion
<u>AE2402 Environmental Geology</u> <i>Replaces 1M1404. (prior level D) Under bearbetning</i>	7,5	A	27	27	-	-			4	
<u>AE2502 Natural Resources Management</u> <i>Replaces 1B1640. (prior level D)</i>	7,5	A	20	-	-	32			4	
<u>AE2503 Environmental Data*</u> <i>Replaces 1E1610. (prior level D) Under bearbetning</i>	7,5	A	18	2	-	38			3	
<u>AG2141 Urban Infrastructure</u> <i>Replaces 1H1141. (prior level D) Under bearbetning</i>	7,5	A	36	-	-	-			3	12h Seminars, 4h Excursion, 20h Project
<u>AG2143 Sustainable Rural and Urban Development*</u> <i>First prio: Students within TEESM-program. Second prio: Incoming exchange-students S. Replaces 1H1143. (tidigare klassning</i>	7,5	A	32	-	-	-		2		24h Seminars, 8h Excursion

C) <i>Under bearbetning</i>											
<u>AG2146 Sustainable Project Management</u> <i>Replaces 1H1146. (prior level C)</i>	7,5	A	30	30	-	-				4	Work shops 30h, Field trips 3 days
<u>AG2501 Human Settlements and Housing</u> <i>Replaces 1H1501. (prior level D)</i> <i>Under bearbetning</i>	7,5	A	24	-	-	-		2			

\*The course has limited participation

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# Geodesy and Geoinformatics

## Geodesy and Geoinformatics TGEGM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">AG2411 GIS Architecture</a> <i>Replaces 1N1653. (prior level C)</i>	7,5	A	24	-	-	48	2				
<a href="#">AG2412 Visualisation Techniques</a> <i>Replaces 1N1656. (prior level C)</i>	7,5	A	24	-	-	48	1				
<a href="#">AG2414 Spatial Analysis</a> <i>replaces 1N1660. (prior level D)</i>	7,5	A	-	-	14	36		3		10 h Seminars 10 h Seminars	
<a href="#">AH2911 Map Projections</a> <i>Replaces 1N1254. (prior level C) <b>Under bearbetning</b></i>	7,5	A	20	20	-	-	1				
<a href="#">AH2912 Reference Systems</a> <i>Replaces 1N1250. (prior level C) <b>Under bearbetning</b></i>	7,5	A	30	-	-	40	2				
<a href="#">AH2913 Satellite Positioning with GPS</a> <i>Replaces 1N1257. (prior level D) <b>Under bearbetning</b></i>	7,5	A	22	-	-	30		3		36h Field exercises	
<b>Recommended Courses</b>											

<u>AG2413 Digital Image Processing and Applications</u> <i>Replaces</i> <i>1N1655.</i> <i>(prior level D)</i>	7,5	A	20	-	-	36				4	
<u>AG2415 Web-GIS</u> <i>Replaces</i> <i>1N1666.</i> <i>(prior level D)</i>	7,5	A	20	-	-	36				4	
<u>AH2914 Physical Geodesy</u> <i>Replaces</i> <i>1N1253.</i> <i>(prior level D)</i> <i>Under bearbetning</i>	7,5	A	28	-	-	36				4	
<u>AH2915 Laser Scanning Technologies</u> <i>Replaces</i> <i>1N1258,</i> <i>(prior level C)</i> <i>Under bearbetning</i>	7,5	A	16	-	-	40				4	

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# ICT Entrepreneurship

## ICT Entrepreneurship TICTM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">I11208 Global Entrepreneurial Leadership in ICT</a> <i>Replaces 2G1733</i>	7,5	C	10	-	-	20	2				
<a href="#">I11210 Network Society</a> <i>Replaces 2G1751</i>	7,5	C	20	-	-	-		3	4	Assigned paper 50 h.	
<a href="#">I12200 Advanced Business Opportunities in ICT</a> <i>Under bearbetning</i>	15		25	-	-	-	1	2		Group project additional lectures online.	
<a href="#">I12202 Research Methodology and Scientific Writing</a> <i>Replaces 2G1705. Under bearbetning</i>	7,5	D	20	-	-	-	1				
<a href="#">I12209 ICT System Design</a> <i>Replaces 2G1741 Under bearbetning</i>	30	D	10	-	-	-			3	4	
<b>Conditionally Elective Courses</b>											
<a href="#">IK2214 Telecom policies and Regulatory Principles</a> <i>Replaces 2G1755 Under bearbetning</i>	7,5	C	20	-	-	-			3	4	Assigned paper 50 h.
<a href="#">IK2554 Practical Voice Over IP (VoIP)</a> <i>Replaces 2G1325 Under bearbetning</i>	7,5	D	10	-	-	-				4	Assigned paper 50h

<u>IV2030 Management of IT-enabled Change</u> <i>Replaces 212125. The course not given 07/08.</i>	7,5	D	20	-	-	-			3	15 h Projektuppgift Only one of I11210 and IV2030 may be taken. 15 h Projektuppgift
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# ICT Entrepreneurship

## ICT Entrepreneurship TICTM2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
<b>Compulsory Courses</b>												
<a href="#">I12209</a> ICT System Design	30	D	10	-	-	-				3	4	
<i>Replaces 2G1741</i>												
<i>Under bearbetning</i>												

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# Industrial Management

## Industrial Marketing TINEM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">ME1003</a> <u>Industrial Economy and Management, Basic Course</u> <i>Replaces 4D1023.</i> <i>Examiner: Thomas Westin.</i> <i>Under bearbetning</i>	6	A	-	-	38	-	2				4 h Seminars 4 h Seminars
<a href="#">ME1007</a> <u>Strategic Management</u> <i>Replaces 4D1061.</i> <i>Examiner: Claes Gustafsson.</i> <i>Under bearbetning</i>	6	B	24	-	-	-			4		6 h Seminars 6 h Seminars
<a href="#">ME2015</a> <u>Project Management: Leadership and Control</u> <i>Replaces 4D1047.</i> <i>Examiner: Johann Packendorff</i> <i>Under bearbetning</i>	6	B	40	8	-	-	1				
<a href="#">ME2023</a> <u>Industrial Marketing</u> <i>Replaces 4D1062.</i> <i>Examiner: Henrik Ugglä.</i> <i>Under bearbetning</i>	6	B	36	12	-	-	1				

<u>ME2024 Industrial Marketing, Advanced Course</u> Replaces 4D1152. Examiner: Henrik Ugglå. Under bearbetning	6	C	36	-	-	-	2		12 h Seminars 12 h Seminars
<u>ME2025 Brand Portfolio Management</u> Replaces 4D1314. Examiner: Henrik Ugglå. Under bearbetning	6	D	-	-	30	-		3	
<u>ME2026 Brand Trends and Traditions</u> Replaces 4D1079. Examiner: Henrik Ugglå. Under bearbetning	6	D	35	-	-	-			4
<u>ME2032 Economics of Industrial and Technical Transformation</u> Replaces 4D1053. Examiner: Pär Blomkvist. Under bearbetning	6	B	36	-	-	-	1		2 h Seminars 2 h Seminars
<u>ME2044 Human Resource Management</u> Replaces 4D1096. Examiner: Matti Kaulio. Under bearbetning	6	B	28	12	-	-		3	
<u>ME2500 Science, Technology and Society</u> Replaces 4D1315. Examiner: Claes Gustafsson. Under bearbetning	6	D	28	-	-	-			4 Seminars 4h

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# Industrial Management

## Innovation and entrepreneurship TINEM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">ME1003 Industrial Economy and Management, Basic Course</a> <i>Replaces 4D1023.</i> <i>Examiner: Thomas Westin.</i> <i>Under bearbetning</i>	6	A	-	-	38	-	2				4 h Seminars 4 h Seminars
<a href="#">ME1007 Strategic Management</a> <i>Replaces 4D1061.</i> <i>Examiner: Claes Gustafsson.</i> <i>Under bearbetning</i>	6	B	24	-	-	-			4		6 h Seminars 6 h Seminars
<a href="#">ME2032 Economics of Industrial and Technical Transformation</a> <i>Replaces 4D1053.</i> <i>Examiner: Pär Blomkvist.</i> <i>Under bearbetning</i>	6	B	36	-	-	-	1				2 h Seminars 2 h Seminars
<a href="#">ME2044 Human Resource Management</a> <i>Replaces 4D1096.</i> <i>Examiner: Matti Kaulio.</i> <i>Under bearbetning</i>	6	B	28	12	-	-			3		
<a href="#">ME2052 The Philosophy of Innovation</a> <i>Examiner: Alf Rehn</i> <i>Under bearbetning</i>	6	D	32	-	-	-				4	

<u>ME2500 Science, Technology and Society</u> <i>Replaces 4D1315.</i> <i>Examiner: Claes Gustafsson.</i> <i>Under bearbetning</i>	6	D	28	-	-	-			4	Seminars 4h
<u>ME2800 Ideation - Creating a Business Idea*</u> <i>Replaces 4D1521.</i> <i>Examiner: Alf Rehn.</i> <i>Under bearbetning</i>	7,5	C	22	-	-	-	1			Seminars 4h
<u>ME2801 Planning - Developing a Venture*</u> <i>Replaces 4D1522.</i> <i>Examiner: Alf Rehn</i> <i>Under bearbetning</i>	7,5	C	22	-	-	-		2		Seminars 4h
<u>ME2802 Execution - Running your own Company*</u> <i>Replaces 4D1523.</i> <i>Examiner: Alf Rehn</i> <i>Under bearbetning</i>	7,5	C	28	-	-	-			3	

\*The course has limited participation

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# Industrial Management

## Project and Production Management TINEM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">ME1003 Industrial Economy and Management, Basic Course</a> <i>Replaces 4D1023.</i> <i>Examiner: Thomas Westin.</i> <i>Under bearbetning</i>	6	A	-	-	38	-	2				4 h Seminars 4 h Seminars
<a href="#">ME1007 Strategic Management</a> <i>Replaces 4D1061.</i> <i>Examiner: Claes Gustafsson.</i> <i>Under bearbetning</i>	6	B	24	-	-	-			4		6 h Seminars 6 h Seminars
<a href="#">ME2013 Operations Management: Organization and Control</a> <i>Replaces 4D1038.</i> <i>Examiner: Johann Packendorff.</i> <i>Under bearbetning</i>	6	B	46	12	-	-	2				
<a href="#">ME2014 Operations Management: Strategy and Development</a> <i>Ersätter 4D1039.</i> <i>Examiner: Johann Packendorff.</i> <i>Under bearbetning</i>	6	C	20	12	-	-		3			Account of project 8h Seminars 8h

<u>ME2015 Project Management: Leadership and Control</u> <i>Replaces</i> 4D1047. <i>Examiner</i> Johann Packendorff <i>Under</i> <i>bearbetning</i>	6	B	40	8	-	-	1			
<u>ME2017 Project Management: Leading Project-Based Operations</u> <i>Replaces</i> 4D1049. <i>Examiner</i> Johann Packendorff. <i>Under</i> <i>bearbetning</i>	6	C	36	12	-	-		3		
<u>ME2032 Economics of Industrial and Technical Transformation</u> <i>Replaces</i> 4D1053. <i>Examiner:</i> Pär Blomkvist. <i>Under</i> <i>bearbetning</i>	6	B	36	-	-	-	1			2 h Seminars 2 h Seminars
<u>ME2039 Knowledge Management</u> <i>Replaces</i> 4D1306. <i>Examiner</i> Örjan Wikforss <i>Under</i> <i>bearbetning</i>	6	D	18	12	-	-			4	12 h Seminars 12 h Seminars
<u>ME2044 Human Resource Management</u> <i>Replaces</i> 4D1096. <i>Examiner:</i> Matti Kaulio. <i>Under</i> <i>bearbetning</i>	6	B	28	12	-	-		3		
<u>ME2500 Science, Technology and Society</u> <i>Replaces</i> 4D1315. <i>Examiner:</i> Claes Gustafsson. <i>Under</i> <i>bearbetning</i>	6	D	28	-	-	-			4	Seminars 4h

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# Master's Progr, Information & Communication Systems Security

## Master's Progr, Information & Communication Systems Security TICSM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">IC2003</a> <u>Research Methodology and Scientific Communication</u> <i>Replaces</i> 211531 <i>Under bearbetning</i>	7,5	D	18	-	-	-	2				
<a href="#">IV2018</a> <u>Introduction to Information Security and its Environment</u> <i>Replaces</i> 211501 <i>Under bearbetning</i>	15	D	22	-	-	16	1				Seminars 10 h
<a href="#">IV2020</a> <u>Network Security</u> <i>Replaces</i> 211503 <i>Under bearbetning</i>	7,5	D	18	-	-	18	2				
<b>Elective Courses</b>											
<a href="#">DD2441</a> <u>Seminars on Theoretical Computer Science</u> <i>Replaces</i> 2D1441. <i>The course is given every second year and will not be given in 07/08.</i>	6	D	30	-	-	-					
<a href="#">ED2230</a> <u>Chaos and Self-organization</u> <i>Replaces</i> 2A1170	6	A	24	12	-	-	1				

<u>IV2019 Introduction to Cryptography</u> <i>Replaces</i> <i>2i1502</i> <i>Under</i> <i>bearbetning</i>	7,5	D	28	-	-	12	2			
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# Master's Progr, Information & Communication Systems Security

## Master's Progr, Information & Communication Systems Security TICSM2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">IC2002 Philosophy of Science</a> <i>Under bearbetning</i>	7,5	D	-	-	-	-			3		
<a href="#">IC2003 Research Methodology and Scientific Communication</a> <i>Replaces 211531</i> <i>Under bearbetning</i>	7,5	D	-	-	-	-	2				
<b>Conditionally Elective Courses</b>											
<a href="#">ID2008 Software Engineering and Security Architecture</a> <i>Replaces 211504</i> <i>Under bearbetning</i>	7,5	D	18	-	-	18			3		
<a href="#">IK2000 Security Architecture for Open Distributed Systems</a> <i>Replaces 211512</i> <i>Under bearbetning</i>	7,5	D	24	-	-	16			3		
<a href="#">IK2001 Security for Java Environment and Electronic Commerce</a> <i>Replaces 211513</i> <i>Under bearbetning</i>	7,5	D	-	-	-	-				4	
<a href="#">IK2002 Security in Mobile and Wireless Networks</a> <i>Replaces 211514</i> <i>Under bearbetning</i>	7,5	D	24	-	-	16				4	

<u>IV2021 Legal Aspects of Information Security</u> Replaces 211505 <i>Under bearbetning</i>	7,5	D	22	-	-	12			3	
<u>IV2022 Security Management</u> Replaces 211506 <i>Under bearbetning</i>	15	D	24	-	-	6			4	Seminars 18 hours
<u>IV2023 Value Based Risk Management</u> Replaces 211511. The course is not given HT07. <i>Under bearbetning</i>	7,5	D	12	12	-	-			2	
<b>Elective Courses</b>										
<u>ID2002 Value-Based Software Engineering</u> Replaces 211259. The course not given 07/08. <i>Under bearbetning</i>	7,5	D	28	-	-	-			4	Seminar 14 h
<u>ID2006 Software Evolution and Maintenance</u> Replaces 211416 <i>Under bearbetning</i>	7,5	C	24	-	6	-			4	
<u>IK2204 Advanced Internetworking</u> Replaces 2G1701 <i>Under bearbetning</i>	9	D	8	18	-	20	1			Group project, additional lectures online
<u>IK2206 Internet Security and Privacy</u> Replaces 2G1704. <i>Under bearbetning</i>	7,5	D	20	10	-	-			2	assigned paper
<u>IV2001 Internet and ERP Systems</u> Replaces 211053 <i>Under bearbetning</i>	7,5	C	12	-	-	-	1			Project work 80 h

<u>IV2401 Project Management for IT Systems</u> <i>Replaces 6B3403.</i> <i>The course not given 07/08.</i> <i>Under bearbetning</i>	15	D	-	-	-	-	1	2				
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# Infrastructure Engineering

## Infrastructure Engineering TISEM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">AF2003 Structural Engineering, Advanced Course</a>	7,5	A	-	-	-	-	1				
<a href="#">AF2004 Concrete and Steel Structures</a>	7,5	A	-	-	-	-		2			
<a href="#">AF2011 Structural Dynamics for Civil Engineers</a> <i>Replaces 1L1032. (prior level D)</i>	7,5	A	33	-	-	12				4	Exercises and Workshop 32h
<a href="#">AF2201 Bridge Design</a> <i>Replaces 1L1203. (prior level D)</i>	7,5	A	33	-	-	-			3		Exercises and Workshop 44h
<a href="#">AF2602 Rock Mechanics</a> <i>Replaces 1L1602. (prior level D)</i>	7,5	A	30	10	-	2			3		
<a href="#">AF2901 Road- and railway Trach Engineering</a> <i>Replaces 1L1913. (prior level C)</i>	7,5	A	33	44	-	-		2			
<a href="#">AF2903 Road Construction and Maintenance</a>	7,5	A	-	-	-	-				4	
<a href="#">AK2023 Risk- and Safety Analys in Building</a> <i>Replaces 1N1127. (prior level D)</i>	7,5	A	44	-	-	-	1				





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# Interactive Systems Engineering

## Interactive Systems Engineering TISYM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">IC2002</a> Philosophy of Science <i>Under bearbetning</i>	7,5	D	-	-	-	-			3		
<a href="#">IC2003</a> Research Methodology and Scientific Communication <i>Replaces 211531 Under bearbetning</i>	7,5	D	18	-	-	-	2				
<a href="#">IC2005</a> Methodology of Interaction Design <i>Replaces 211716 Under bearbetning</i>	7,5	D	-	-	-	-	2				
<a href="#">ID2010</a> Programming of Interactive Systems <i>Replaces 211717 Under bearbetning</i>	7,5	D	-	-	-	-			3		
<a href="#">ID2011</a> Microsimulation <i>Under bearbetning</i>	7,5	D	-	-	-	-			3		
<b>Conditionally Elective Courses</b>											
<a href="#">IC1007</a> Human-computer Interaction: Principles and Design <i>The course is a replacement for IC1000 in the master program of Interactive Systems Engineering. Replaces 211714</i>	7,5	B	27	8	80	-	1				

<i>Under bearbetning</i>													
<u>IC2006 Cognitive and Social Science: HMI</u> <i>The course is a replacement for 211707 from 06/07. Students who have already taken the course 211707 can therefore not apply for this one. Replaces 211718</i> <i>Under bearbetning</i>	7,5	D	20	6	-	-		2					
<u>IC2008 Affective Interaction</u> <i>Replaces 211722</i> <i>Under bearbetning</i>	7,5	D	18	-	-	120			3				
<u>IC2009 Principles of Visualization</u> <i>Replaces 211723</i> <i>Under bearbetning</i>	7,5	D	15	-	-	40				4		12 h Seminars, 136 h Projektuppgift	12 h Seminars, 136 h Projektuppgift
<u>IC2010 Advanced Individual Course in Human-Computer Interaction</u> <i>Replaces 211724</i> <i>Under bearbetning</i>	7,5	D	-	-	-	-	1	2	3	4			
<u>ID1006 Java Programming</u> <i>Replaces 211090</i> <i>Under bearbetning</i>	7,5	B	-	-	-	-	1						
<u>ID2009 Artificial Intelligence: Principles and Techniques</u> <i>Under bearbetning</i>	7,5	C	-	-	-	-	1						

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# Master's Progr, Internetworking

## Master's Progr, Internetworking TINWM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">II2202</a> <u>Research Methodology and Scientific Writing</u> <i>Replaces 2G1705.</i> <i>Under bearbetning</i>	7,5	D	20	-	-	-	1				
<a href="#">IK2204</a> <u>Advanced Internetworking</u> <i>Replaces 2G1701</i> <i>Under bearbetning</i>	9	D	8	18	-	20	1				Group project, additional lectures online
<a href="#">IK2205</a> <u>Inter Domain Routing</u> <i>Replaces 2G1703</i> <i>Under bearbetning</i>	7,5	D	10	-	-	20		2			Home assignment
<a href="#">IK2206</a> <u>Internet Security and Privacy</u> <i>Replaces 2G1704.</i> <i>Under bearbetning</i>	7,5	D	20	10	-	-		2			assigned paper
<a href="#">IK2207</a> <u>Communication System Design</u> <i>Under bearbetning</i>	18	D	-	-	-	-	1	2	3	4	
<b>Conditionally Elective Courses</b>											
<a href="#">EP2300</a> <u>Management of Networks and Networked Systems</u> <i>The course replaces 2E1632.</i> <i>Under bearbetning</i>	7,5	A	20	-	-	20				4	Project
<a href="#">IK2554</a> <u>Practical Voice Over IP (VoIP)</u> <i>Replaces 2G1325</i> <i>Under bearbetning</i>	7,5	D	10	-	-	-				4	Assigned paper 50h



<a href="#">IK2555</a> <u>Wireless and Mobile Network Architectures</u> <i>Replaces 2G1330</i> <i>Under bearbetning</i>	7,5	D	10	-	-	-			3		Assigned paper 50h
<b>Elective Courses</b>											
<a href="#">ID2216</a> <u>Developing Mobile Applications</u> <i>Replaces 2G1722</i> <i>Under bearbetning</i>	7,5	D	20	-	-	10			3		
<a href="#">II1210</a> <u>Network Society</u> <i>Replaces 2G1751</i>	7,5	C	20	-	-	-			3	4	Assigned paper 50 h.
<a href="#">IK1611</a> <u>Dimensioning of Communication Systems</u> <i>Replaces 2B1315</i> <i>Under bearbetning</i>	7,5	C	26	24	-	-			3		Project assignment.
<a href="#">IK2208</a> <u>Communication System Design</u> <i>Under bearbetning</i>	24	D	-	-	-	-	1	2	3	4	
<a href="#">IK2209</a> <u>Communication System Design</u> <i>Under bearbetning</i>	30	D	-	-	-	-	1	2	3	4	
<a href="#">IK2210</a> <u>GSM Network and Services</u> <i>Replaces 2G1723.</i> <i>The course not given 07/08.</i> <i>Under bearbetning</i>	7,5	D	24	-	-	-				4	Laboratory 5 sessions
<a href="#">IK2213</a> <u>Network Services and Internet-based Applications</u> <i>Replaces EP2150.</i> <i>Under bearbetning</i>	7,5	D	10	16	-	-				4	Group projects.
<a href="#">IK2214</a> <u>Telecom policies and Regulatory Principles</u> <i>Replaces 2G1755</i> <i>Under bearbetning</i>	7,5	C	20	-	-	-			3	4	Assigned paper 50 h.
<a href="#">IV2030</a> <u>Management of IT-enabled Change</u> <i>Replaces 2I2125.</i> <i>The course not given 07/08.</i>	7,5	D	20	-	-	-			3		15 h Projektuppgift Only one of II1210 and IV2030 may be taken. 15 h Projektuppgift



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# Land Management

## Land Management TLMAM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">AI2101 Real Estate Valuation*</a> <i>Replaces 1F1331. (prior level D) Under bearbetning</i>	7,5	A	30	30	-	-				4	
<a href="#">AI2112 Economics*</a> <i>Replaces 1N1312. (prior level A) Under bearbetning</i>	4,5	A	16	18	-	-	2				2 h Workshop 2 h Workshop
<a href="#">AI2113 Real Estate Investment Analysis*</a> <i>Under bearbetning</i>	4,5	A	18	18	-	-	2				
<a href="#">AI2701 Land Policy</a> <i>Replaces part of 1N1413</i>	3	A	10	-	15	-	1				
<a href="#">AI2702 Property Formation and Cadastre Mapping</a> <i>Replaces 1N1416</i>	9	A	30	40	-	-	1				
<a href="#">AI2703 Property Transactions</a> <i>Replaces 1N1415</i>	9	A	30	40	-	-	1	2			
<a href="#">AI2704 Urban Land Development</a> <i>Replaces 1N1413</i>	5	A	20	20	-	-			3		

<a href="#">AI2705</a> Comparative Law <i>Replaces partly the course 1N1414</i>	4	A	16	20	-	-			3	
<a href="#">AI2706</a> Development of Property Rights <i>I Replaces 1N1418</i>	7,5	A	30	30	-	-			4	

\*The course has limited participation

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# Land Management

## Land Management TLMAM2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">AG2420 Mass Valuation with GIS-methods</a> <i>Under bearbetning</i>	7,5	A	-	-	-	-	1				
<a href="#">AI2707 Compulsory Purchases</a> <i>Under bearbetning</i>	4	A	-	-	-	-	1				
<a href="#">AI2708 Development of Property Rights II</a> <i>Under bearbetning</i>	8	A	-	-	-	-	2				
<a href="#">AI2709 Land Information Systems</a> <i>Replaces 1N1417</i>	9	A	-	-	-	-	2				

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# Materials Science and Engineering

## Materials Design TMSEM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">MH2026</a> Introduction to Materials and Process Design	9	D	32	-	20	15	1				
<a href="#">MH2027</a> Micro and nanostructures in materials	7	D	26	10	-	15		2			
<a href="#">MH2028</a> Chemical Kinetics and Rate Phenomena	6	D	20	12	-	-	1				Seminars 12 h Project work 64 h
<a href="#">MH2029</a> Extractive Metallurgy	6	D	40	40	-	12		2			study trip 8h
<a href="#">MH2030</a> Applied Thermodynamics and Diffusion Kinetics	6	D	20	20	-	-		2			Computer lab 8 h
<a href="#">MH2032</a> Mechanical Properties of Materials <i>Under bearbetning</i>	6	D	18	18	-	6				4	
<a href="#">MH2033</a> Theory and Modelling of High Temperature Processes <i>Under bearbetning</i>	6	D	6	20	14	-				4	
<a href="#">MH2034</a> Property Measurements and Materials Characterization <i>Under bearbetning</i>	6	D	12	12	-	30			3		
<a href="#">MH2037</a> Ceramics	6	D	26	8	-	-			3		

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# Materials Science and Engineering

## Materials processing TMSEM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">MH2252 Casting Processing*</a> <i>Replaces 4M1334</i>	6	D	12	24	-	18			3		
<a href="#">MH2276 Physics for Materials Processing*</a> <i>Replaces 4M1336</i>	7,5	C	16	16	-	-			3	Home assignments 60h	
<a href="#">MH2278 Materials Forming*</a> <i>Replaces 4M1338</i>	6	D	20	20	-	-				4 Home assignments 40 h Computer assignments 40 h	
<a href="#">MH2282 Powder Processing*</a>	6	D	-	-	-	-				4	
<a href="#">MH3253 Fluid Mechanics and Heat Transfer*</a> <i>Replaces 4M5303</i>	6	D	20	16	-	-				4 Home assignment 60 h	

\*The course has limited participation

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# Mathematics

## Mathematics TMTHM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">DN2251 Applied Numerical Methods III</a> <i>Replaces 2D1251.</i>	9	C	36	4	-	24	1	2			
<a href="#">SF1841 Optimization</a>	6	C	28	16	-	6			3		
<a href="#">SF2713 Foundations of Analysis</a> <i>Under bearbetning</i>	7,5	C	-	-	54	-	1	2			
<a href="#">SF2714 Discrete Mathematics and Algebra</a> <i>Under bearbetning</i>	7,5	C	-	-	54	-		2			
<a href="#">SF2940 Probability Theory</a> <i>Replaces 5B1540.</i>	7,5	C	24	24	-	-	1				
<b>Recommended Courses</b>											
<a href="#">DD2446 Complexity Theory</a> <i>Replaces 2D1446. The course is given every second year and will be given in 07/08. Spec. Discr. Math. and Theor. Comp. Sc.</i>	6	D	30	-	-	-					4



<u>DD2449 Foundations of Cryptography</u> Replaces 2D1449. Spec. Discr. Math. and Theor. Comp. Sc.	6	D	30	-	-	-			3	
<u>DN2255 Numerical Solutions of Differential Equations</u> Replaces 2D1255. Spec. Comp. Math.	7,5	D	30	-	-	8			3	4
<u>DN2269 Mathematical Models, Analysis and Simulation, part 2</u> Replaces 2D1269. Not given 07/08. Spec. Comp. Math.	7,5	D	42	-	-	12				
<u>SF2701 Financial Mathematics, Basic Course</u> Replaces 5B1306. Spec. Mat. Stat. and Fin. Math. <i>Under bearbetning</i>	7,5	C	-	-	54	-				4
<u>SF2705 Fourier Analysis</u> Replaces 5B1466. Given 07/08. Spec Math. <i>Under bearbetning</i>	7,5	D	-	-	36	-			3	4
<u>SF2707 Functional Analysis</u> Replaces 5B1472. Given 07/08. Spec Math. <i>Under bearbetning</i>	7,5	D	-	-	36	-			3	4

<u>SF2708 Combinatorics</u> Replaces 5B1475. Given 07/08. Spec Math. + Spec. Discr. Math. and Theor. Comp. Sc. <i>Under bearbetning</i>	7,5	D	-	-	36	-				3	4	
<u>SF2715 Applied Combinatorics</u> Replaces 5B1305. Not given 07/08. Spec. Discr. Math. and Theor. Comp. Sc.	6	C	-	-	42	-						
<u>SF2852 Optimal Control Theory</u> Replaces 5B1873. Spec. Opt. and Syst. Theory	7,5	D	36	18	-	-				3		Homework assignments
<u>SF2862 Stochastic Decision Support Models</u> Replaces 5B1843. Spec. Opt. and Syst. Theory <i>Under bearbetning</i>	7,5	D	36	18	-	-				3		Homework assignments
<u>SF2950 Applied Mathematical Statistics</u> Replaces 5B1550. Spec. Mat. Stat. and Fin. Math.	7,5	D	-	-	60	-				3		
<b>Elective Courses</b>												
<u>DD2257 Visualization</u> Replaces 2D1257. Spec. Comp. Math.	6	C	16	-	-	14				3		

<a href="#">DN2269</a> <u>Mathematical Models, Analysis and Simulation, part 2</u> <i>Replaces 2D1269.</i> <i>Not given 07/08.</i> <i>Spec.</i> <i>Mat.</i> <i>Stat. and Fin. Math.</i>	7,5	D	42	-	-	12						
<a href="#">DN2290</a> <u>Advanced Numerical Analysis</u> <i>Replaces 2D1290.</i> <i>The course will not be on the central schedule.</i> <i>Spec.</i> <i>Comp. Math.</i>	7,5	D	16	-	-	4				4		
<a href="#">SF2827</a> <u>Topics in Optimization</u> <i>Replaces 5B1818.</i> <i>Spec.</i> <i>Opt. and Syst. Theory</i> <i>Under bearbetning</i>	7,5	D	12	6	-	-				3		Project assignments
<a href="#">SF2867</a> <u>Decision Support Methods - Project Course</u> <i>Replaces 5B1847.</i> <i>Spec.</i> <i>Opt. and Syst. Theory</i>	7,5	D	12	6	-	-				4		Project assignments
<a href="#">SF2950</a> <u>Applied Mathematical Statistics</u> <i>Replaces 5B1550.</i> <i>Spec.</i> <i>Opt. and Syst. Theory</i>	7,5	D	-	-	60	-				3		
<a href="#">SF2955</a> <u>Computer Intensive Methods in Mathematical Statistics</u> <i>Replaces 5B1555.</i> <i>Given every second year</i> <i>Spec.</i> <i>Mat.</i> <i>Stat. and Fin. Math.</i>	7,5	D	-	-	48	-				4		

<u>SG2212 Computational Fluid Dynamics</u> <i>Replaces</i> <i>5C1212.</i> <i>Spec.</i> <i>Comp.</i> <i>Math.</i>	7,5	D	-	-	50	10			3	
<u>SG2213 Applied Computational Fluid Dynamics</u> <i>Replaces</i> <i>5C1213.</i> <i>Spec.</i> <i>Comp.</i> <i>Math.</i>	3	D	-	-	16	14			4	

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# Media Management

## Media Management TMEMM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">DM2550 Market Systems</a> <i>Replaces 2D1550.</i>	7,5	C	-	-	-	-	1				Seminars 40h
<a href="#">DM2552 Media Management</a> <i>Replaces 2D1552.</i>	15	C	72	56	-	-			3	4	
<a href="#">DM2553 Media Production*<sub>-</sub></a> <i>Replaces 2D1553.</i>	15	C	36	-	-	36		2			8 h Seminars 8 h Seminars
<a href="#">DM2557 Consumer Behaviour</a> <i>Replaces 2D1557.</i>	7,5	C	-	-	-	-	1				Seminars 40h
<b>Elective Courses</b>											
<a href="#">DD1310 Programming Techniques</a> <i>Replaces 2D1310.</i>	6	A	20	12	-	24			3	4	
<a href="#">DM250N Telepresence Production</a> <i>Replaces 2D1573.</i>	6	C	22	-	10	-			3	4	
<a href="#">DM2590 Media Perception</a> <i>Replaces 2D1590.</i>	6	C	30	-	-	21			3		
<a href="#">DM2591 Production Technology for Moving Pictures</a> <i>Replaces 2D1591</i>	9	C	56	-	-	8				4	
<a href="#">ME2020 Intellectual Property Law</a> <i>Replaces 4D1052.</i> <i>Examiner: Bengt Domeij.</i> <i>Under bearbetning</i>	6	C	18	8	-	-				4	6 h Seminars 6h 6 h Seminars

\*The course has limited participation



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# Medical Imaging

## Medical Imaging TMEEM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
<b>Compulsory Courses</b>												
<a href="#">HL1010 Systems Biology*</a>	7,5	C	32	-	-	25		2				24 h Seminars 24 h Seminars
<a href="#">HL2006 Medical Engineering, Basic Course</a>	7,5	D	-	-	-	-	1					
<a href="#">HL2007 Mathematical Methods of 3D Microscopy</a> <i>Under bearbetning</i>	7,5	D	-	-	-	-		2				
<a href="#">HL2008 Simulation Methods in Medical Engineering</a> <i>Under bearbetning</i>	7,5	D	-	-	-	-			3			
<a href="#">HL2009 Ionising Radiation Imaging</a>	6	D	-	-	-	-			3			
<a href="#">HL2010 Ultrasound</a> <i>Under bearbetning</i>	6	D	-	-	-	-			3			
<a href="#">HL2011 Magnetic Resonance Imaging</a> <i>Under bearbetning</i>	4,5	D	-	-	-	-				4		
<a href="#">HL2012 3D Image Reconstruction in Medicine</a> <i>Under bearbetning</i>	6	D	-	-	-	-				4		
<a href="#">SH2001 Entrepreneurship for Engineering Physicists</a> <i>Replaces 5A1112.</i>	7,5	D	-	-	-	-	1					

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# Modern Physics

## Modern Physics TMPHM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">SH2201</a> <u>Experimental Particle Physics</u> <i>Replaces</i> <i>5A1405.</i>	6	D	26	-	-	4		2			8 h Seminars 8 h Seminars
<a href="#">SH2302</a> <u>Nuclear Physics</u> <i>Replaces</i> <i>5A1411.</i>	8	D	24	-	-	25	1	2			
<a href="#">SI2370</a> <u>Relativity Theory</u> <i>Replaces</i> <i>5A1384.</i>	7,5	C	30	30	-	-			3		
<a href="#">SI2380</a> <u>Advanced Quantum Mechanics</u> <i>Replaces</i> <i>5A1385.</i>	7,5	D	36	30	-	-	1	2			
<b>Recommended Courses</b>											
<a href="#">SH2200</a> <u>Astroparticle Physics</u> <i>Replaces</i> <i>5A1312.</i> <i>Exp. Spec.</i>	6	D	28	-	-	-			3		8 h Seminars 8 h Seminars



<u>SH2306 Experimental Techniques for Nuclear and Particle Physics</u> <i>Replaces</i> 5A1420. <i>Exp. Spec.</i> <i>+Rad. Det....</i> <i>Spec.</i>	8	D	24	-	-	10	2			
<u>SH2310 Radiation Detectors and Medical Imaging Systems</u> <i>Replaces</i> 5A1414. <i>Rad. Det....</i> <i>Spec.</i>	7,5	D	24	-	-	15		3	4	6 h Seminars, 20 h Study visit 6 h Seminars, 20 h Study visit
<u>SI2360 Analytical Mechanics and Classical Field Theory</u> <i>Replaces</i> 5A1383. <i>Theor. Spec.</i>	7,5	C	30	30	-	-		3	4	
<u>SI2400 Theoretical Particle Physics</u> <i>Replaces</i> 5A1387. <i>Theor. Spec.</i>	7,5	D	36	-	-	-		3	4	
<b>Elective Courses</b>										
<u>SF2700 Analysis, Basic Course</u> <i>Replaces</i> 5B1303.	9	C	-	-	66	-		3	4	
<u>SF2707 Functional Analysis</u> <i>Replaces</i> 5B1472. <i>Given 07/08.</i> <i>Under bearbetning</i>	7,5	D	-	-	36	-		3	4	
<u>SH2001 Entrepreneurship for Engineering Physicists</u> <i>Replaces</i> 5A1112.	7,5	D	16	-	-	-	1	2		8 h Seminars 8 h Seminars
<u>SH2004 Environmental Physics</u> <i>Replaces</i> 5A1360.	8	C	24	-	-	-			4	8 h Seminars Project work with oral and written reports 8 h Seminars

<a href="#">SH2011 Theoretical Nuclear Physics</a> <i>Under bearbetning</i>	6	D	30	-	-	-			3	4	
<a href="#">SH2307 Physics at Accelerators</a> <i>Replaces 5A1425. Given if there are enough interest. Please contact course administrator.</i>	6	D	35	-	-	8			3		8 h Study visit 8 h Study visit
<a href="#">SH2311 Radiation Sources for Therapy</a> <i>Replaces 5A1416.</i>	3	D	10	-	-	-				4	14 h Study visit 14 h Study visit
<a href="#">SH2400 Physics Simulation II</a> <i>Replaces 5A1419.</i>	7,5	B	-	-	-	-				4	
<a href="#">SH2402 Astrophysics</a> <i>Replaces 5A1440.</i>	6	D	18	-	-	-			3		
<a href="#">SH2502 Synchrotron Radiation Based Atomic and Molecular Physics</a> <i>Replaces 5A1460. Given if there are enough interest. Please contact course administrator.</i>	6	D	24	-	-	-				4	
<a href="#">SH2603 Radiation, Protection, Dosimetry and Detectors</a>	6	D	16	20	-	20	1				20 h Seminars 20 h Seminars

<u>S12410 Quantum Field Theory</u> <i>Replaces</i> <i>5A1388.</i> <i>Reading</i> <i>course.</i>	7,5	D	36	-	-	-				4
<u>S12420 Mathematical Foundations of Quantum</u> <u>Mechanics</u> <i>Replaces</i> <i>5A1389.</i> <i>Given every</i> <i>second year.</i> <i>Not given</i> <i>07/08.</i>	7,5	D	36	-	-	-				
<u>S12530 Computational Physics</u> <i>Replaces</i> <i>5A1393.</i>	7,5	D	30	-	-	20		2		

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# Nanotechnology

## Nanotechnology TNTEM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">IH2651 Semiconductor Theory and Device Physics, General Course</a> <i>Replaces</i> 2B1260 <i>Under</i> <i>bearbetning</i>	7,5	D	30	10	-	8		2			Individual assignments 20h
<a href="#">IH2654 Nanoelectronics</a> <i>Replaces</i> 2B1234 <i>Under</i> <i>bearbetning</i>	9	D	30	10	-	8				4	
<a href="#">IM2651 Physics of Electronic Materials</a> <i>Replaces</i> 2B1211 <i>Under</i> <i>bearbetning</i>	7,5	C	40	24	-	8	1				
<a href="#">IM2652 Surface Physics, Basic Course</a> <i>Replaces</i> 2B1263 <i>Under</i> <i>bearbetning</i>	6	D	36	-	-	-			3		
<b>Conditionally Elective Courses</b>											
<a href="#">IH2653 Simulation of Semiconductor Devices</a> <i>Replaces</i> 2B1248 <i>Under</i> <i>bearbetning</i>	7,5	D	24	-	-	32		2			
<a href="#">IH2658 Semiconductor Theory and Device Physics, Advanced Course</a> <i>Replaces</i> 2B1261 <i>Under</i> <i>bearbetning</i>	6	D	-	36	-	-			3		

<u>IM2654 Smart Electronic Materials</u> <i>Replaces</i> <i>2B1750</i> <i>Under</i> <i>bearbetning</i>	6	C	18	10	-	8	1				
<u>SK2700 Mesoscopic Physics</u> <i>Replaces</i> <i>5A1378.</i>	8	D	36	-	-	8	2				
<u>SK2710 Spin Electronics</u> <i>Replaces</i> <i>5A1379.</i>	8	D	24	-	-	4			4		
<b>Elective Courses</b>											
<u>IH2655 Design and Characterisation of Nano- and Microdevices*</u> <i>Replaces</i> <i>2B1242</i> <i>Under</i> <i>bearbetning</i>	7,5	D	24	-	-	32			3		
<u>IH2656 Advanced Semiconductor Materials</u> <i>Replaces</i> <i>2B1823</i> <i>Under</i> <i>bearbetning</i>	7,5	D	34	-	-	16			3		Study tour to a semiconductor industry
<u>IM2653 Molecular Electronics</u> <i>Replaces</i> <i>2B1715</i> <i>Under</i> <i>bearbetning</i>	7,5	D	30	8	-	-				4	
<u>IT2655 Frontiers of Microelectronics and Information Technology</u> <i>Replaces</i> <i>2B1140</i> <i>Under</i> <i>bearbetning</i>	6	D	20	-	-	-			3		

\*The course has limited participation

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# Network Services and Systems

## Network Services and Systems TNSSM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">EP2910 Communication Networks I</a> <i>Under bearbetning</i>	7,5	A	24	16	-	16	1				
<a href="#">EP2920 Communication Networks II</a>	7,5	A	24	16	-	16	2				
<a href="#">EP2930 Queuing Theory</a> <i>Under bearbetning</i>	7,5	D	24	16	-	16	1				
<a href="#">EP2940 Internet Services and Traffic Measurements</a>	7,5	A	24	16	-	16	2				
<a href="#">EP2950 Wireless Networks</a>	7,5	A	-	-	-	-			3		
<a href="#">EP2960 Programming of Mobile Services</a>	7,5	D	24	-	-	32			3		
<a href="#">EP2970 Simulation of Communication Networks</a> <i>Under bearbetning</i>	7,5	D	12	-	-	32				4	
<a href="#">EP2980 Communication Services for Health Care</a> <i>Under bearbetning</i>	7,5	D	24	16	-	16				4	
<a href="#">EP2990 Routing in IP Networks</a> <i>Under bearbetning</i>	7,5	D	-	-	-	-	1				

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# Nuclear Energy Engineering

## Nuclear Energy Engineering TNEEM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">MJ2405 Sustainable Power Generation</a> <i>Replaces 4A1605</i>	9	D	50	30	-	12	1	2			
<a href="#">SH2600 Nuclear Reactor Physics, Major Course</a> <i>Replaces 5A1775.</i>	9	D	36	-	-	19		2			8 h Study visit Reactor exercise 40 h 8 h Study visit
<a href="#">SH2603 Radiation, Protection, Dosimetry and Detectors</a>	6	D	16	20	-	20	1				20 h Seminars 20 h Seminars
<a href="#">SH2702 Nuclear Reactor Technology</a>	8	D	32	24	-	8			3		
<a href="#">SH2773 Nuclear Power Safety</a>	6	D	36	-	-	60				4	2 h Seminars 2 h Seminars
<b>Elective Courses</b>											
<a href="#">KD2080 Nuclear Chemistry</a>	7,5	C	30	-	-	20		2			
<a href="#">KD2290 Reactor Chemistry</a> <i>Under bearbetning</i>	6	A	-	-	-	-	1				
<a href="#">MJ2411 Renewable Energy Technology</a> <i>Replaces 4A1611</i>	6	D	-	-	52	-	1				Study visit 8h
<a href="#">SH2302 Nuclear Physics</a> <i>Replaces 5A1411.</i>	8	D	24	-	-	25	1	2			
<a href="#">SH2602 Transmutation of Nuclear Waste</a>	8	D	22	-	-	-			3	4	8 h Seminars 8 h Seminars
<a href="#">SH2701 Thermal-Hydraulics in Nuclear Energy Engineering</a>	6	D	24	24	-	-		2			
<a href="#">SH2703 Nuclear Reactor Dynamics and Stability</a>	6	D	24	24	-	-				4	
<a href="#">SH2772 Chemistry and Physics of Nuclear Fuels</a>	8	D	36	4	-	4			3	4	4 h Seminars 4 h Seminars







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# Pharmaceuticals and Pharmaceutical Engineering

## Pharmaceuticals and Pharmaceutical Engineering TPHEM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">BB2170 Drug Development</a>	6	D	36	-	-	-			3		8 h Study visit 8 h Study visit
<a href="#">KD2070 Technical Surface Colloid Chemistry</a>	6	C	32	6	-	12				4	
<a href="#">KD2190 Organic Chemistry, Theory, Advanced Course 1</a>	7,5	C	12	6	-	-				4	
<a href="#">KE2030 Chemical Engineering, Laboratory Course</a>	6	D	-	-	-	-	1				
<a href="#">KE2040 Chemical Reaction Engineering</a>	9	D	16	24	-	34	1	2			
<a href="#">KE2070 Transport Phenomena, Advanced Course</a>	7,5	D	18	12	-	-			3		6 h Seminars, 12 h Computer 6 h Seminars, 12 h Computer
<a href="#">KE2080 Chemical Engineering in Fine and Specialty Chemicals</a>	7,5	D	20	12	42	27	1				8h industry visit
<a href="#">KF2190 Polymeric Materials: Structure and Properties</a>	7,5	D	18	18	-	45		2			

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# Photonics

## Photonics TPHSM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">IF2651 Quantum Electronics</a> <i>Replaces</i> 2B1822 <i>Under</i> <i>bearbetning</i>	7,5	D	24	16	-	-	2				
<a href="#">IK2651 Principles of Communications</a> <i>Replaces</i> 2B1821 <i>Under</i> <i>bearbetning</i>	6	D	24	12	-	-	1				
<a href="#">IO2651 Optics</a> <i>Replaces</i> 2B1811 <i>Under</i> <i>bearbetning</i>	9	D	38	20	-	35	1				
<a href="#">IO2652 Optics, Continuation Course</a> <i>Under</i> <i>bearbetning</i>	6	D	24	8	-	-		3			
<a href="#">IO2653 Fiber-optical Communication</a> <i>Replaces</i> 2B1813 <i>Under</i> <i>bearbetning</i>	7,5	D	28	14	-	8		3			
<a href="#">IO2655 Photonics</a> <i>Replaces</i> 2B1814 <i>Under</i> <i>bearbetning</i>	7,5	D	38	-	-	8			4		
<a href="#">IT2651 Microwave Engineering</a> <i>Replaces</i> 2B1812 <i>Under</i> <i>bearbetning</i>	7,5	D	36	18	-	10	2				
<b>Conditionally Elective Courses</b>											
<a href="#">IM2653 Molecular Electronics</a> <i>Under</i> <i>bearbetning</i>	7,5	D	30	8	-	-				4	



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# Photonics

## Photonics TPHSM2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">IH2656</a> <u>Advanced Semiconductor Materials</u> <i>Replaces 2B1823</i> <i>Under bearbetning</i>	7,5	D	34	-	-	16			3		Study tour to a semiconductor industry
<a href="#">IO2654</a> <u>Optical Networking</u> <i>Replaces 2B1824</i> <i>Under bearbetning</i>	7,5	D	28	-	-	-				4	
<b>Conditionally Elective Courses</b>											
<a href="#">IH2653</a> <u>Simulation of Semiconductor Devices</u> <i>Replaces 2B1248</i> <i>Under bearbetning</i>	7,5	D	24	-	-	32		2			
<a href="#">IM2653</a> <u>Molecular Electronics</u> <i>Under bearbetning</i>	7,5	D	30	8	-	-				4	



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# Production Engineering and Management

## Production Engineering and Management TPRMM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">MG2200 European Business Culture</a> <i>Replaces 4G1180</i>	7,5	C	30	60	-	-			3	4	
<a href="#">MG2201 Design and Process Modelling</a> <i>Replaces 4G1181</i>	7,5	C	30	60	-	-	1	2			
<a href="#">MG2202 Quality Control</a> <i>Replaces 4G1182</i>	9	D	30	60	-	-	1	2	3	4	
<a href="#">MG2203 Process Control and Management</a> <i>Replaces 4G1183</i>	9	D	30	60	-	-			3	4	
<a href="#">MG2204 Manufacturing Technology and Planning</a> <i>Replaces 4G1184</i>	9	D	30	60	-	-	1	2			
<a href="#">MG2205 Operations Management</a> <i>Replaces 4G1185</i>	9	C	30	60	-	-	1	2	3	4	
<a href="#">MG2206 Design and Information Management</a> <i>Replaces 4G1186</i>	9	D	30	60	-	-	1	2	3	4	

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# Production Engineering and Management

## Production Engineering and Management TPRMM2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">MG100x Degree in Design and Product Realization project (Bachelor of Science)</a>	15	C	-	-	20	-			3	4	

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# Real Estate Management

## Real Estate Management TREFM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<u>AI1108 Investment Analysis</u> <i>Replaces</i> <i>1N1307.</i> <i>(prior</i> <i>level C)</i> <i>Under</i> <i>bearbetning</i>	7,5	G	30	30	-	-	1				
<u>AI2102 Real Estate Market Analysis and Development</u> <i>Replaces</i> <i>1F1333.</i> <i>(prior</i> <i>level D)</i> <i>Under</i> <i>bearbetning</i>	7,5	A	30	30	-	-		3			
<u>AI2105 Urban and Regional Economics</u> <i>Replaces</i> <i>1H1157.</i> <i>(prior</i> <i>level D)</i> <i>Under</i> <i>bearbetning</i>	7,5	G	-	-	66	-	2				
<u>AI2115 Financial Economics</u> <i>Replaces</i> <i>1N1315.</i> <i>(prior</i> <i>level D)</i> <i>Under</i> <i>bearbetning</i>	7,5	A	30	30	-	-	2				
<u>AI2116 Contract Theory</u> <i>replaces</i> <i>1N1316.</i> <i>(prior</i> <i>level D)</i> <i>Under</i> <i>bearbetning</i>	7,5	A	30	30	-	-		3			

<u>AI2130 Quantitative Methods with Real Estate Applications</u> <i>Replaces 1N1308. (prior level C)</i> <i>Under bearbetning</i>	7,5	G	30	30	-	-	1						
<b>Conditionally Elective Courses</b>													
<u>AI2101 Real Estate Valuation*</u> <i>Replaces 1F1331. (prior level D)</i> <i>Under bearbetning</i>	7,5	A	30	30	-	-					4		
<u>AI2117 Facility Management</u> <i>Replaces 1N1317. (prior level D)</i> <i>Under bearbetning</i>	7,5	A	30	30	-	-					4	Web-based study-support	
<u>AI2118 Portfolio Management and Real Estate Finance</u> <i>Replaces 1N1318. (prior level D)</i> <i>Under bearbetning</i>	7,5	A	30	30	-	-					4		
<b>Recommended Courses</b>													
<u>AI0120 Introductory Economics and Quantitative Methods</u> <i>Will be given during the introductory weeks</i> <i>Replaces 1N1320. (prior level C)</i> <i>Under bearbetning</i>	1,5	G	-	-	-	-							

\*The course has limited participation





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# Master's Progr, Scientific Computing

## Master's Progr, Scientific Computing TSCCM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">DD2325 Applied Programming and Computer Science</a>	7,5	B	20	20	-	12		2			
<a href="#">DN2251 Applied Numerical Methods III</a> <i>Replaces 2D1251.</i>	9	C	36	4	-	24	1	2			
<a href="#">DN2255 Numerical Solutions of Differential Equations</a> <i>Replaces 2D1255.</i>	7,5	D	30	-	-	8			3	4	
<a href="#">DN2260 The Finite Element Method</a> <i>Replaces 2D1260.</i>	6	C	18	14	-	10	1				
<a href="#">DN2264 Parallell Computations for Large-Scale Problems, part 1</a> <i>Replaces 2D1264.</i>	6	C	24	-	-	12			3	4	
<a href="#">DN2265 Parallell Computations for Large-Scale Problems, part 2</a> <i>Replaces 2D1265.</i>	3	C	4	-	-	8				4	
<a href="#">DN2266 Mathematical Models, Analysis and Simulation Part 1</a> <i>Replaces 2D1266.</i>	7,5	C	48	-	-	12	1	2			
<b>Elective Courses</b>											
<a href="#">DD2257 Visualization</a> <i>Replaces 2D1257.</i>	6	C	16	-	-	14			3		
<a href="#">DN2269 Mathematical Models, Analysis and Simulation, part 2</a> <i>Replaces 2D1269. Not given 07/08.</i>	7,5	D	42	-	-	12					

<u><a href="#">DN2290</a></u> Advanced Numerical Analysis <i>Replaces 2D1290.</i> <i>The course will not be on the central schedule.</i>	7,5	D	16	-	-	4				4	
<u><a href="#">MH2102</a></u> Computational Physics <i>Replaces 4H1115</i>	7,5	D	24	-	-	-				4	
<u><a href="#">MH2425</a></u> Simulation and Modelling on the Atomic Scale	6	D	20	-	20	-				3	
<u><a href="#">SG2212</a></u> Computational Fluid Dynamics <i>Replaces 5C1212.</i>	7,5	D	-	-	50	10				3	
<u><a href="#">SG2213</a></u> Applied Computational Fluid Dynamics <i>Replaces 5C1213.</i>	3	D	-	-	16	14				4	

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# Master's Progr, Scientific Computing

## Master's Progr, Scientific Computing TSCCM2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">DA2205</a> Introduction to the Philosophy of Science and Research Methodology	7,5	C	28	-	-	-	2				12 h Seminars 12 h Seminars
<a href="#">DN2258</a> Introduction to High Performance Computing* <i>Replaces 2D1258. Please note that the course starts in August. Will not be on the central schedule.</i>	7,5	C	40	-	-	40	1				
<a href="#">DN240X</a> Degree Project in Scientific Computing (Master of Science) <i>Replaces 2D1040.</i>	30	D	-	-	-	-					
<b>Elective Courses</b>											
<a href="#">BB2300</a> Computational Chemistry	7,5	D	20	-	-	-	2				
<a href="#">DD2381</a> Industrial Applications of Artificial Intelligence <i>Replaces 2D1381.</i>	6	C	36	-	-	-	1	2			
<a href="#">DD2431</a> Machine Learning <i>Replaces 2D1431.</i>	6	C	26	-	-	20	2				

<u>DN2253 Numerical Algebra, Methods for Large Matrices</u> <i>Replaces 2D1253.</i> <i>Given every second year. Not given 07/08.</i>	7,5	D	24	-	-	6					
<u>DN2274 Computational Electromagnetics</u> <i>Replaces 2D1274.</i> <i>Not given 07/08.</i> <i>Not on the central schedule.</i>	7,5	D	24	-	-	8					
<u>DN2297 Advanced Individual Course in Scientific Computing</u> <i>Replaces 2D1297.</i> <i>Course may start any time during the semester.</i>	6	D	-	-	-	-	1	2	3	4	
<u>IH2653 Simulation of Semiconductor Devices</u> <i>Replaces 2B1248</i> <i>Under bearbetning</i>	7,5	D	24	-	-	32	2				
<u>SD2610 Computational Aerodynamics</u> <i>Replaces 4E1239.</i>	9	D	56	16	-	16			3	4	

\*The course has limited participation

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# Software Engineering of Distributed Systems

## Software Engineering of Distributed Systems TSEDM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">ID2201</a> <a href="#">Distributed Systems, Basic</a> Course Replaces 2G1509	7,5	D	24	-	-	-	1				Project work 12 hours
<a href="#">ID2203</a> <a href="#">Distributed Systems, Advanced</a> Course Replaces 2G1513 <i>Under bearbetning</i>	7,5	D	24	-	-	-			3		
<a href="#">ID2207</a> <a href="#">Modern Methods in Software Engineering</a> Replaces 2G1522 <i>Under bearbetning</i>	7,5	D	20	10	-	-	1				
<a href="#">ID2208</a> <a href="#">Programming Web-Services</a> Replaces 2G1523 <i>Under bearbetning</i>	7,5	D	20	10	-	-			3		
<a href="#">ID2209</a> <a href="#">Distributed Artificial Intelligence and Intelligent Agents</a> Replaces 2G1524 <i>Under bearbetning</i>	7,5	D	24	10	-	-		2			
<a href="#">ID2210</a> <a href="#">Distributed Computing, Peer-to-Peer and GRIDS</a> Replaces 2G1526 <i>Under bearbetning</i>	7,5	D	-	-	12	-				4	Assignment presentations 1 h per group
<a href="#">ID2212</a> <a href="#">Network Programming with Java</a> <i>Under bearbetning</i>	7,5	D	22	10	-	10		2			

Conditionally Elective Courses											
<u>ID2204</u> Constraint Programming <i>Replaces</i> 2G1515 <i>Under</i> <i>bearbetning</i>	7,5	D	24	-	-	-				4	Project work 10 hours
<u>IV2031</u> Strategic Management of IT <i>Replaces</i> 2I2126	7,5	D	20	-	-	-				4	15 h Projektuppgift 15 h Projektuppgift

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# Software Engineering of Distributed Systems

## Software Engineering of Distributed Systems TSEDM2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Elective Courses</b>											
<a href="#">IS2206</a> Research Methods in Computer Systems Engineering <i>Replaces</i> 2G1535 <i>Under</i> <i>bearbetning</i>	7,5	D	8	-	-	-			3		

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# Sound and Vibration

## Sound and Vibration TSOVM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">SD2110 Introduction to Noise Control</a> <i>Replaces 4B1160. The course is open only to students of the TLJVM programme and exchange students.</i>	3	C	-	-	12	-	1				
<a href="#">SD2130 Signal Analysis</a> <i>Replaces 4B1164.</i>	8	D	-	-	26	8	1	2			Computer exercises 14 h. Written tests 4 h.
<a href="#">SD2145 Vibro-Acoustics</a> <i>Replaces 4B1162.</i>	11	D	-	-	64	-	1	2			
<a href="#">SD2155 Flow Acoustics</a> <i>Replaces 4B1136.</i>	6	D	-	48	-	8			3		
<a href="#">SD2165 Acoustical Measurements</a> <i>Replaces 4B1166.</i>	8	D	-	-	16	20	1	2			
<a href="#">SD2170 Energy Methods</a> <i>Replaces 4B1168.</i>	6	D	-	-	28	-				4	
<b>Elective Courses</b>											
<a href="#">DT2140 Multimodal Interaction and Interfaces</a>	7,5	C	20	-	-	15				4	30 h Projektuppgift 30 h Projektuppgift
<a href="#">DT2213 Musical Communication and Music Technology</a> <i>Replaces 2F1213.</i>	7,5	D	28	8	-	12				4	Project assignment 30h



<u>DT2410 Audio Technology</u> <i>Replaces 2F1410.</i>	7,5	D	30	12	-	12		2		20 h Projektuppgift 20 h Projektuppgift
<u>SD2150 Experimental Structure Dynamics, Project Course</u> <i>Replaces 4B1132.</i>	9	D	-	36	24	8		2	3	
<u>SD2175 Numerical Methods for Acoustics and Vibration</u> <i>Replaces 4B1170.</i>	9	D	-	-	36	-			3	
<u>SD2190 Vehicle Acoustics and Vibration</u> <i>Replaces 4B1176. Not given 07/08.</i>	6	D	-	-	24	-				
<u>SD2225 Ground Vehicle Dynamics, Basic Course*</u> <i>Replaces 4B1425.</i>	11	D	30	48	-	4			3	4
<u>SG2218 Turbulence</u> <i>Replaces 5C1218.</i>	7,5	D	-	-	36	3			3	4

\*The course has limited participation

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# Spatial Planning

## Spatial Planning TSPPM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">AG2106 Urbanism Worldwide</a> <i>Replaces 1N1506. (prior level C)</i>	7,5	A	56	-	-	-	1				Seminars 24h, Project 12 h
<a href="#">AG2107 Planning the Sustainable City</a> <i>Replaces 1N1507. (prior level D)</i>	7,5	A	18	-	-	-	1				Project 28h , Study visit 8h ,Seminars 8h, Time for project work will be added.
<a href="#">AG2109 Planning Theory, Advanced Course</a> <i>New course that replaces 1H1171 Urban Governance Replaces 1N1509. (prior level D) Under bearbetning</i>	7,5	A	-	-	20	-			3		Seminars 20h, Additional time for Project
<a href="#">AG2116 City Networks in Regional Contexts</a> <i>Under bearbetning</i>	7,5	A	-	-	-	-			3		
<a href="#">AG2117 Regional Planning Project</a> <i>Under bearbetning</i>	7,5	A	-	-	-	-				4	

<u>AG2171 Futures Studies and Forecasts</u> Replaces 1H1172. (prior level D) <i>Under bearbetning</i>	7,5	A	50	-	-	-	2		Seminars 10h, Workshops 6h
<u>AG2422 Spatial Planning with GIS</u> Replaces 1N1663. (prior level D)	7,5	A	30	-	-	36		4	
<u>AI2105 Urban and Regional Economics</u> Replaces 1H1157. (prior level D) <i>Under bearbetning</i>	7,5	G	-	-	66	-	2		

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## Master's Progr, Sustainable Energy Engineering

### Master's Progr, Sustainable Energy Engineering TSUEM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">MJ1402 Introduction to Energy Technology</a> <i>Replaces</i> 4A1602	3	C	24	24	-	-	1				Study visits 4h
<a href="#">MJ2405 Sustainable Power Generation</a> <i>Replaces</i> 4A1605	9	D	50	30	-	12	1	2			
<a href="#">MJ2407 Sustainable Energy Utilisation</a> <i>Replaces</i> 4A1607	9	D	-	-	72	16	1	2			
<a href="#">MJ2409 Applied Energy Technology - Project Course</a> <i>Replaces</i> 4A1609	9	D	12	-	-	-			3	4	Project 78h
<a href="#">MJ2410 Energy Management</a> <i>Replaces</i> 4A1610	6	D	50	-	-	-		2	3		
<a href="#">MJ2411 Renewable Energy Technology</a> <i>Replaces</i> 4A1611	6	D	-	-	52	-	1				Study visit 8h
<a href="#">MJ2413 Energy and Environment</a> <i>Replaces</i> 4A1613 <i>Examinator:</i> Björn Palm, Tel 790 7453	6	D	50	-	-	-			3	4	Study visit 6h
<b>Conditionally Elective Courses</b>											
<a href="#">MJ2411 Renewable Energy Technology</a> <i>Replaces</i> 4A1611 MJ2411 is to be studied together with MJ2426.	6	D	-	-	52	-	1				Study visit 8h

<u>MJ2412 Renewable Energy Technology, Advanced Course</u> <i>Replaces 4A1612 Conditionally elective for Power Generation. MJ2412 or MJ2427 has to be studied</i>	6	D	26	-	-	-		3		Study visit 4 h
<u>MJ2422 Thermal Comfort and Indoor Climate</u> <i>Replaces 4A1622 Mandatory for Energy Utilisation MJ2422 is to be studied together with MJ2423.</i>	6	D	54	-	-	-		3	4	Study visits 6h
<u>MJ2423 Applied Refrigeration and Heat Pump Technology</u> <i>Replaces 4A1623 Mandatory for Energy Utilisation.</i>	6	D	24	24	-	16		3	4	
<u>MJ2426 Applied Heat and Power Technology</u> <i>Replaces 4A1626 Mandatory for Power Generation. MJ2426 is to be studied together with either MJ2427 or MJ2412.</i>	6	D	36	12	-	8		3	4	Project assignment 8h
<u>MJ2427 Applied Reactor Technology and Nuclear Power Safety</u> <i>Replaces 4A1627 One of the courses MJ2412 och MJ2427 has to be studied. MJ2427 is to be studied together with MJ2426.</i>	6	D	48	-	-	-		3	4	Study visits 12h



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## Master's Progr, Sustainable Energy Engineering

### Master's Progr, Sustainable Energy Engineering TSUEM2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">MJ2424 Numerical Methods in Energy Technology</a> <i>Replaces 4A1624</i>	6	D	24	12	-	12	1	2			
<b>Elective Courses</b>											
<a href="#">MJ2241 Introductory Airbreathing Propulsion</a> <i>Replaces 4A1341</i>	6	C	21	24	-	8		2			
<a href="#">MJ2244 Airbreathing Propulsion, Intermediate Course I</a> <i>Replaces 4A1344</i>	6	D	40	-	-	-			3	4	Project work 6h
<a href="#">MJ2246 Rocket Propulsion</a> <i>Replaces 4A1346</i>	6	D	20	10	-	-				4	Project course 20 h Self study 20 h
<a href="#">MJ2247 Airbreathing Propulsion for High Speed Flight</a> <i>Replaces 4A1347</i>	6	D	27	10	-	6				4	
<a href="#">MJ2420 Combustion Theory</a> <i>Replaces 4A1620</i>	6	C	18	18	-	15	1	2			
<a href="#">MJ2429 Fluid Machinery</a> <i>Replaces 4A1629</i>	6	C	30	18	-	12	1				
<a href="#">MJ2430 Thermal Fluid Machinery</a> <i>REplaces 4A1630</i>	6	D	36	12	-	12			3	4	

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# Sustainable Technology

## Sustainable Technology TSUTM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">MJ2611 Introduction Industrial Ecology</a> <i>Replaces</i> <i>3C1336</i>	6	C	12	-	-	-	1				Seminars 8 h Project Study visit 4 h
<a href="#">MJ2630 Waste Management, Advanced Course</a> <i>Replaces</i> <i>3C1350</i>	6	D	18	-	-	-				4	Project work, Assignments, Study visit 4 halfdays
<a href="#">MJ2640 Cleaner Production</a> <i>Replaces</i> <i>3C1352</i> <i>Compulsory</i> <i>for the</i> <i>Master</i> <i>programme</i> <i>Sustainable</i> <i>Technology</i>	6	C	14	-	-	-			3		Seminars 9 h
<a href="#">MJ2651 Ecology, Advanced Course</a> <i>Replaces</i> <i>3C1356</i>	6	C	21	4	-	-			3	4	Field work 8h
<a href="#">MJ2652 Environmental Effects from Technical Systems and Processes</a>	6	D	16	-	-	-	1				Seminars 4h Project work Study visit
<a href="#">MJ2663 Environmental Management</a> <i>Replaces</i> <i>3C1380</i>	6	C	10	-	-	-	1				Seminars 12 h
<a href="#">MJ2670 Risk Management</a> <i>Replaces</i> <i>3C1383</i>	6	C	16	15	-	-			3		
<a href="#">MJ2680 Environmental Systems Analysis</a> <i>Replaces</i> <i>3C1387</i>	6	C	16	8	-	6	2				
<a href="#">MJ2691 Technology and Sustainable Development</a> <i>Replaces</i> <i>3C1396</i>	6	C	8	9	-	-	2				
<b>Conditionally Elective Courses</b>											

<a href="#">MJ2620 Environmental Technology,</a> <u>Advanced Course</u>	6	D	24	12	-	-				4	
<a href="#">MJ2664 Environmental Management II,</a> <u>Advanced Course</u> <i>Replaces</i> <i>3C1381</i>	6	D	8	6	-	-				4	Project

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# Master's Progr, System-on-Chip Design

## Master's Progr, System-on-Chip Design TSKKM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">IL2200 ASIC-design Methodology with High-level Languages</a> <i>Replaces 2B1423</i> <i>Under bearbetning</i>	7,5	D	20	4	-	20	2				
<a href="#">IL2206 Embedded Systems</a> <i>Replaces 2B1446</i>	7,5	C	24	8	-	16	1				
<a href="#">IL2207 System-On-Chip Architectures</a> <i>Replaces 2B1448</i> <i>Under bearbetning</i>	7,5	D	24	8	-	12	2				
<a href="#">IL2217 Digital Design with HDL</a> <i>Replaces 2B1513</i> <i>Under bearbetning</i>	7,5	D	22	10	-	28	1				
<b>Conditionally Elective Courses</b>											
<a href="#">ID2218 Design of Fault-tolerant Systems</a> <i>Replaces 2B1454.</i> <i>Under bearbetning</i>	7,5	D	24	10	-	-				4	
<a href="#">II2202 Research Methodology and Scientific Writing</a> <i>Replaces 2G1705.</i> <i>Under bearbetning</i>	7,5	D	20	-	-	-	1				

<a href="#">IL1218 Analog Electronics, Advanced</a> Course Replaces 2B1515. The course IL1218 replaces by IL2218. <i>Under bearbetning</i>	7,5	C	30	14	-	20		2	3	Project work
<a href="#">IL2202 System Modelling</a> Replaces 2B1429 <i>Under bearbetning</i>	7,5	D	20	12	-	-			3	Exercises 12
<a href="#">IL2204 DSP-Construction with HDL</a> Replaces 2B1435 <i>Under bearbetning</i>	7,5	D	24	12	-	24			3	
<a href="#">IL2208 Electronic System Packaging ( Hardware Engineering )</a> Replaces 2B1450 <i>Under bearbetning</i>	7,5	D	20	16	-	-			3	
<a href="#">IL2209 Advanced Logic Design</a> Replaces 2B1456 <i>Under bearbetning</i>	7,5	D	24	6	-	-			3	
<a href="#">IL2211 System-on-Chip Applications</a> Replaces 2B1459 <i>Under bearbetning</i>	7,5	D	32	16	-	-			4	
<a href="#">IL2212 Embedded Software</a> Replaces 2B1463 <i>Under bearbetning</i>	7,5	D	20	8	-	12			3	
<a href="#">IL2218 Analog Electronics, Advanced</a> Course <i>Under bearbetning</i>	7,5	D	30	14	-	20		2	3	Project work
<a href="#">IL2219 Radio Electronics</a> Replaces 2B1600 <i>Under bearbetning</i>	7,5	D	26	12	-	16			4	
<a href="#">IL2220 Low Power Analog and Mixed Signal ICs</a> Replaces 2B1611 <i>Under bearbetning</i>	7,5	D	-	14	42	-			4	

<a href="#">IS1202</a> Computer Systems Architecture	7,5	C	16	16	-	16				4	Homework 16h
<i>Replaces</i> 2G1534 <i>Under</i> <i>bearbetning</i>											
<b>Elective Courses</b>											
<a href="#">IL2205</a> Applied Signal Processing	7,5	D	20	16	-	12				4	
<i>Replaces</i> 2B1436 <i>Under</i> <i>bearbetning</i>											

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## Study Handbook

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# Master's Progr, System-on-Chip Design

## Master's Progr, System-on-Chip Design TSKKM2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">IL2202 System Modelling</a> <i>Replaces</i> 2B1429 <i>Under</i> <i>bearbetning</i>	7,5	D	20	12	-	-			3		Exercises 12
<a href="#">IL2213 Design Project Course I</a> <i>Replaces</i> 2B1471 <i>Under</i> <i>bearbetning</i>	7,5	D	5	-	-	40	2				
<a href="#">IL2214 Design Project Course II</a> <i>Replaces</i> 2B1472 <i>Under</i> <i>bearbetning</i>	7,5	D	5	-	-	40	2				
<b>Conditionally Elective Courses</b>											
<a href="#">ID1215 Compilers and Execution Environments</a> <i>Replaces</i> 2G1533 <i>Under</i> <i>bearbetning</i>	7,5	C	28	8	-	4	2				
<a href="#">ID2201 Distributed Systems, Basic Course</a> <i>Replaces</i> 2G1509	7,5	D	24	-	-	-	1				Project work 12 hours
<a href="#">II2202 Research Methodology and Scientific Writing</a> <i>Replaces</i> 2G1705. <i>Under</i> <i>bearbetning</i>	7,5	D	20	-	-	-	1				
<a href="#">IL2204 DSP-Construction with HDL</a> <i>Replaces</i> 2B1435 <i>Under</i> <i>bearbetning</i>	7,5	D	24	12	-	24		3			

<a href="#">IL2209</a> <u>Advanced Logic Design</u> <i>Replaces</i> <i>2B1456</i> <i>Under</i> <i>bearbetning</i>	7,5	D	24	6	-	-			3	
<a href="#">IL2222</a> <u>Digital Circuit Design for</u> <u>Nanoscale CMOS</u> <i>Under</i> <i>bearbetning</i>	7,5	D	24	6	-	16			3	Project 16h.

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# Systems, Control and Robotics

## Systems, Control and Robotics TSCRM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">DD2422</a> Image Analysis and Computer Vision <i>Replaces 2D1422.</i>	6	C	30	2	-	20			3		
<a href="#">EH2720</a> Management of Projects <i>Replaces 2C1524</i>	7,5	A	32	20	-	-	1				
<a href="#">EL2310</a> Scientific programming <i>Under bearbetning</i>	7,5	A	32	-	-	10	1				
<a href="#">EL2450</a> Hybrid and Embedded Control Systems <i>Replaces 2E1245</i>	7,5	A	28	28	-	8			3		
<a href="#">EL3320</a> Applied Estimation <i>Under bearbetning</i>	7,5	A	20	-	-	9			3		
<a href="#">EQ1220</a> Signal Theory <i>Replaces 2E1422</i>	7,5	A	30	30	-	-	1				

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# Transport Systems

## Transport Systems TTSYM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">AH2171</a> Traffic Engineering and Management	7,5	A	-	-	30	30	1				
<a href="#">AH2172</a> Transport Data collection and Analysis	7,5	A	-	-	30	30		2			
<a href="#">AH2300</a> Transport and Society	7,5	A	-	-	30	30	1				
<a href="#">AH2301</a> Transport Policy and Evaluation	7,5	A	-	-	30	30		2			
<a href="#">AH2302</a> Transport Modelling	7,5	A	-	-	30	26			3		
<b>Conditionally Elective Courses</b>											
<a href="#">AH2173</a> Public Transport	7,5	A	-	-	30	30			3		
<a href="#">AH2303</a> Transport and Sustainable Development	7,5	A	27	-	27	-				4	
<a href="#">AH2304</a> Advanced Transport Modelling	7,5	A	24	8	-	12				4	Seminar 6h

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# Master's Programme, Urban Planning and Design

## Master's Programme, Urban Planning and Design TUPDM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">AD2810</a> Concepts and Tools in Urban Analysis	7,5	A	24	-	-	-	1				Seminars 12h, Project work 36h
<a href="#">AD2815</a> Public Places and Spaces	7,5	A	18	-	-	-		2			Seminars 12h, Project work 42h
<a href="#">AD2820</a> Structural Components in Urban Planning and Design	15	A	48	-	-	-				4	Seminars 24h, Project 72h
<a href="#">AD2825</a> Compositions in Urban Design	7,5	A	48	-	-	-			3		Seminars 12h, Project 72h
<a href="#">AG2106</a> Urbanism Worldwide <i>Replaces 1N1506. (prior level C)</i>	7,5	A	56	-	-	-	1				Seminars 24h, Project 12 h
<a href="#">AG2108</a> Urban Theory, Advanced Course <i>Replaces 1N1508. (prior level D)</i>	7,5	A	12	-	-	-		2			Seminars 12h, Excursion 8h
<a href="#">AG2111</a> Process in Urban Planning <i>Replaces 1N1511. (prior level D)</i>	7,5	A	-	-	20	-			3		Seminars 20h, Additional time for Project





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# Master's Programme, Urban Planning and Design

## Master's Programme, Urban Planning and Design TUPDM2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">AD2830 Applied Analysis in Urban Design</a>	7,5	A	24	-	-	-	1				Seminars 12 h, Projects 24 h
<a href="#">AG2115 Contemporary Trends in Urban Planning and Design</a>	15	A	24	-	-	-		2			Seminars 16 h, Project Studio 48 h, Filed Trips 2 days
<a href="#">AG2507 Research Methodology and Scientific Writing</a>	7,5	A	20	-	-	-	1				Seminars 30 h
<b>Conditionally Elective Courses</b>											
<a href="#">AG210X Degree Project in Regional Planning, Second Level</a> <i>Replaces 1H1004. (prior level D)</i>	30	D	-	-	-	-			3	4	

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# Water System Technology

## Water System Technology TWSTM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">AE2103 Environmental Aquatic Chemistry</a> <i>Replaces 1M1402. (prior level C)</i> <i>Under bearbetning</i>	7,5	A	24	20	-	12	2				
<a href="#">AE2202 Dynamics of Environmental Systems</a>	7,5	A	26	24	-	-	2				
<a href="#">AE2504 Water Governance</a> <i>Under bearbetning</i>	7,5	A	22	-	20	-		3		Seminars 6h	
<a href="#">AE2505 Water Systems and Geographic Information</a>	7,5	A	20	-	-	32			4		
<a href="#">AE2608 Engineering hydrology and climate</a>	7,5	A	33	-	33	2	1				
<a href="#">AE2706 Integrated Water Resources Management</a>	7,5	A	30	-	8	-	1			Individual work 2 weeks	
<b>Conditionally Elective Courses</b>											
<a href="#">AE2104 Environmental Measuring and Monitoring</a> <i>Under bearbetning</i>	7,5	A	22	40	-	4			4	Field exercise 18h	
<a href="#">AE2301 Water and Waste Handling</a> <i>Replaces 1B1233. (prior level C)</i>	7,5	A	40	-	-	-		3		8 h Exkursion Tutorials 16h 8 h Exkursion	
<a href="#">AE2602 Applied Hydrology</a> <i>Replaces 1B1133. (prior level A)</i> <i>Under bearbetning</i>	7,5	A	30	30	-	-			4		

<a href="#">AE2609 Hydraulic engineering systems</a> <i>Under bearbetning</i>	7,5	A	32	-	32	-			3	
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# Master's Progr, Wireless Systems

## Master's Progr, Wireless Systems TTLSM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">EQ1220</a> <u>Signal Theory</u> <i>Replaces</i> <i>2E1422</i>	7,5	A	30	30	-	-	1				
<a href="#">EQ2310</a> <u>Digital Communications</u> <i>Replaces</i> <i>2E1432</i>	9	A	32	32	-	18	1	2			
<a href="#">IK2500</a> <u>Radio Communication, Basic</u> Course <i>Replaces</i> <i>2E1511</i> <i>Under</i> <i>bearbetning</i>	6	D	24	24	-	8	1				
<b>Elective Courses</b>											
<a href="#">DS2304</a> <u>Technical English, Advanced</u> Level <sup>*</sup>	9	C	-	-	56	-	1	2			
<a href="#">EH2720</a> <u>Management of Projects</u> <i>Replaces</i> <i>2C1524</i>	7,5	A	32	20	-	-	1				
<a href="#">EH2730</a> <u>Requirements Engineering</u> <i>Replaces</i> <i>2C1520</i>	7,5	A	22	8	-	-		2			
<a href="#">EN2300</a> <u>Speech Signal Processing</u> <i>Replaces</i> <i>2E1400.</i>	6	D	24	24	-	-		2			
<a href="#">EN2400</a> <u>Image Processing</u> <i>Replaces</i> <i>2E1405</i>	6	D	24	24	-	-				4	
<a href="#">EP2120</a> <u>Internetworking</u> <i>Replaces</i> <i>2E1605</i> <i>Under</i> <i>bearbetning</i>	7,5	A	20	20	-	-			3		

<u>EP2200</u> <u>Queuing Theory and Teletraffic Systems</u> <i>The course replaces 2E1618.</i>	7,5	C	24	24	-	-	2			
<u>EP2210</u> <u>Performance Analysis of Communication Networks</u> <i>The course replaces 2E1624.</i> <i>Under bearbetning</i>	7,5	A	-	-	24	-	1			30 h Projektuppgift 30 h Projektuppgift
<u>EP2300</u> <u>Management of Networks and Networked Systems</u> <i>The course replaces 2E1632.</i> <i>Under bearbetning</i>	7,5	A	20	-	-	20			4	Project
<u>EQ2300</u> <u>Digital Signal Processing</u> <i>Replaces 2E1340</i>	7,5	A	26	16	-	8	2			
<u>EQ2400</u> <u>Adaptive Signal Processing</u> <i>Replaces 2E1350</i>	6	A	24	14	-	-			3	
<u>EQ2410</u> <u>Advanced Digital Communications</u> <i>Replaces 2E1436</i>	6	A	26	26	-	-			3	
<u>EQ2420</u> <u>Antenna Theory</u> <i>Replaces 2H1260</i> <i>Under bearbetning</i>	7,5	A	26	24	-	18			3	
<u>EQ2430</u> <u>Project Course in Signal Processing and Digital Communication</u> <i>Replaces 2E1367</i>	12	D	10	-	50	-				4 Project work 8 cr.
<u>EQ2460</u> <u>Seminars in Wireless Systems</u> <i>Replaces 2E1381</i>	3	A	-	-	-	-			3	4 16 h Seminars 16 h Seminars
<u>EQ2800</u> <u>Optimal Filtering</u> <i>Given every second year.</i> <i>Given 08/09.</i>	6	A	-	-	24	-				

<u>EQ2810 Estimation Theory, Accelerated</u> Program Course Given next time Fall 2007. <i>Under bearbetning</i>	6	A	20	-	-	-	1				
<u>EQ2820 Matris Algebra, Accelerated</u> Program Replaces 2E1360	7,5	A	28	-	-	-			4		
<u>EQ2830 Detection and Modulation Theory, Accelerated Program</u> Replaces 2E1434 <i>Under bearbetning</i>	7,5	A	21	-	-	-	2				
<u>EQ2840 Information Theory and Channel Coding, Accelerated Program</u> Replaces 2E1438 <i>Under bearbetning</i>	7,5	A	21	-	-	-			4		
<u>EQ2850 Coding for Wireless Communications, Accelerated Program</u> <i>Under bearbetning</i>	7,5	A	24	-	-	-	2				
<u>IK2502 Wireless Networks*</u> Replaces 2E1512 <i>Under bearbetning</i>	12	D	30	24	-	12			4	80 h Projektuppgift 80 h Projektuppgift	
<u>IK2555 Wireless and Mobile Network Architectures</u> Replaces 2G1330 <i>Under bearbetning</i>	7,5	D	10	-	-	-			3	Assigned paper 50h	
<u>IL2219 Radio Electronics</u> Replaces 2B1600 <i>Under bearbetning</i>	7,5	D	26	12	-	16			4		
<u>ME1000 Industrial Management</u> Replaces 4D1022. Only för Exchange Students. Examiner: Thomas Westin. <i>Under bearbetning</i>	6	A	34	-	-	-	1			2 h Seminars 2 h Seminars	

ME2043 Leadership in Cross-Cultural Context* <i>Replaces 4D1076. Recommended for exchange students Examiner Matti Kaulio Under bearbetning</i>	6	C	22	12	-	-	2			12 h Seminars 12 h Seminars
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\*The course has limited participation

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## Master's Progr, Wireless Systems

## Master's Progr, Wireless Systems TTLSM2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
<b>Compulsory Courses</b>											
<a href="#">AK2030</a> Theory and Methodology of Science	4,5	A	20	-	-	-	1				
<b>Elective Courses</b>											
<a href="#">AK1210</a> Swedish Society, Culture and Industry in Historical Perspective <i>Replaces 4D1222. (prior level A)</i>	6	G	14	-	-	-	1	2			1 h Wholedays, 14 h Seminars, 28 h Study visit 1 h Wholedays, 14 h Seminars, 28 h Study visit
<a href="#">DS2304</a> Technical English, Advanced Level*	9	C	-	-	56	-	1	2			
<a href="#">EH2720</a> Management of Projects <i>Replaces 2C1524</i>	7,5	A	32	20	-	-	1				
<a href="#">EH2730</a> Requirements Engineering <i>Replaces 2C1520</i>	7,5	A	22	8	-	-		2			
<a href="#">EN2400</a> Image Processing <i>Replaces 2E1405</i>	6	D	24	24	-	-				4	
<a href="#">EP2120</a> Internetworking <i>Replaces 2E1605</i> <i>Under bearbetning</i>	7,5	A	20	20	-	-			3		
<a href="#">EP2210</a> Performance Analysis of Communication Networks <i>The course replaces 2E1624.</i> <i>Under bearbetning</i>	7,5	A	-	-	24	-	1				30 h Projektuppgift 30 h Projektuppgift



<u>EP2300 Management of Networks and Networked Systems</u> <i>The course replaces 2E1632. Under bearbetning</i>	7,5	A	20	-	-	20				4	Project
<u>EQ2410 Advanced Digital Communications</u> <i>Replaces 2E1436</i>	6	A	26	26	-	-			3		
<u>EQ2430 Project Course in Signal Processing and Digital Communication</u> <i>Replaces 2E1367</i>	12	D	10	-	50	-				4	Project work 8 cr.
<u>EQ2460 Seminars in Wireless Systems</u> <i>Replaces 2E1381</i>	3	A	-	-	-	-			3	4	16 h Seminars 16 h Seminars
<u>EQ2800 Optimal Filtering</u> <i>Given every second year. Given 08/09.</i>	6	A	-	-	24	-					
<u>EQ2810 Estimation Theory, Accelerated Program Course</u> <i>Given next time Fall 2007. Under bearbetning</i>	6	A	20	-	-	-	1				
<u>EQ2820 Matris Algebra, Accelerated Program</u> <i>Replaces 2E1360</i>	7,5	A	28	-	-	-				4	
<u>EQ2830 Detection and Modulation Theory, Accelerated Program</u> <i>Replaces 2E1434 Under bearbetning</i>	7,5	A	21	-	-	-		2			
<u>EQ2840 Information Theory and Channel Coding, Accelerated Program</u> <i>Replaces 2E1438 Under bearbetning</i>	7,5	A	21	-	-	-				4	
<u>EQ2850 Coding for Wireless Communications, Accelerated Program</u> <i>Under bearbetning</i>	7,5	A	24	-	-	-		2			

<u>IK2555 Wireless and Mobile Network Architectures</u> <i>Replaces 2G1330</i> <i>Under bearbetning</i>	7,5	D	10	-	-	-			3	Assigned paper 50h
<u>IL2219 Radio Electronics</u> <i>Replaces 2B1600</i> <i>Under bearbetning</i>	7,5	D	26	12	-	16			4	
<u>ME1000 Industrial Management</u> <i>Replaces 4D1022.</i> <i>Only för Exchange Students.</i> <i>Examiner: Thomas Westin.</i> <i>Under bearbetning</i>	6	A	34	-	-	-	1			2 h Seminars 2 h Seminars
<u>ME2043 Leadership in Cross-Cultural Context*</u> <i>Replaces 4D1076.</i> <i>Recommended for exchange students</i> <i>Examiner Matti Kaulio</i> <i>Under bearbetning</i>	6	C	22	12	-	-		2		12 h Seminars 12 h Seminars

\*The course has limited participation

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## Polymeric Materials: Structure and Properties

Advanced course covering structure and properties of polymeric materials in relation to applications.

### Aim

After the course the student should be able to:

- Explain the relation between structure and properties for volume and construction plastics and rubber materials
- Analyse polymer properties from the structure for volume and construction plastics and rubber materials
- Propose suitable polymers for different applications in polymer technology; biomaterials, packaging, film and fiber, materials for electronics and IT-applications.

### Syllabus

The aim of the course is to provide detailed knowledge of the structure/properties of polymeric materials and their applications. The relation between synthesis/production and technical properties and use are emphasized for commercial use of plastics materials like fibers, rubbers, foils, film, thermosets and thermoplasts. Explanations are given to variations in properties depending of mixtures, additives and /or reinforcing. The development of new bulk polymers and special polymers and ways of thinking for design and formulation of new polymeric materials is discussed.

### Prerequisites

Polymer technology with cellulose technology ([3E1200](#)) or the corresponding.

### Follow-up

## KF2190

**Credits:** 7,5**ECTS Credits:** 7,5**Level:** D**Grading:** A-F**Language:** Svenska / Swedish**Compulsory for**  
TPHEM1**Recommended for**  
MAKE(K4), TMATM1**Elective for**  
BMT(BD4)**Time**

Period 2

Lectures 18h

Tutorials 18h

Laboration 45h

[Home Page of the Course](#)**Coordinator**

Ann-Christine Albertsson

[aila@polymer.kth.se](mailto:aila@polymer.kth.se)

tel. +46 8 790 8274

[3E5021 Biomaterials](#) [3E5031 Degradable polymers](#)

## Requirements

Written examination (TEN1); 2,0 credits

Laboratory work (LAB1); 2,5 credits

Exercises (ÖVN1); 0,5 credits

## Required reading

Brydson: Plastics materials

Ulrich: Introduction to Industrial Polymers

Dyson: Speciality polymers

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