

Study Handbook

Syllabus

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Biological Physics

Biological Physics TBPHM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
5A1357 Physics of Molecular Biology	4	D	24	-	-	-	1				
5A1582 Physics of Biomedical Microscopy	4	D	28	-	-	20		2			
5A1584 Cellular Biophysics	5	D	20	-	-	24			3		
5A1586 Experimental Biomolecular Physics	4	D	34	-	-	15				4	5 h Study visit5 h Study visit
5A1588 Introduction to Biomedicine for Physicists <i>Under bearbetning</i>	4	D	32	-	-	-	1	2			
Elective Courses											
5A1350 Statistical Mechanics	4	C	24	24	-	-				4	
5A1351 Non-equilibrium Statistical Mechanics	4	D	24	-	-	-				4	
5A1354 Computational Physics	6	D	30	-	-	20	1				
5A1358 Membrane Physics	4	D	24	-	-	-			3		
5A1414 Radiation Detectors and Medical Imaging Systems	5	D	24	6	-	20			3	4	
5A1416 Radiation Sources for Therapy	2	D	8	-	-	-				4	2 compulsory studyvisits
5A1490 Laser Chemistry	4	D	24	-	-	12		2			
5A1491 Femtochemistry	5	D	36	-	-	-			3		
5A1495 Molecular Physics	5	D	34	10	-	-			3		
5A1511 Optical Physics <i>Under bearbetning</i>	4	D	26	14	-	25	1				
5A1512 Optical Physics, Extended Course <i>Can only be studied together with 5A1511.</i> <i>Under bearbetning</i>	2	D	12	6	-	10	1				

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Computer Science

Computer Science TDATM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Elective Courses											
2D1220 Applied Numerical Methods I	4	C	36	-	-	18			3	4	
2D1240 Numerical Methods, Basic Course II	4	B	24	14	-	18	1	2			
2D1240 Numerical Methods, Basic Course II	4	B	24	14	-	18			3	4	
2D1257 Visualization	4	C	16	-	-	14			3		
2D1323 Computer Graphics and Interaction <i>Allowed for all programmes except D.</i>	4	C	42	-	-	12				4	
2D1334 Database Technology	4	C	24	20	-	12			3		
2D1350 Programming Paradigms	4	C	32	-	-	20	1	2			
2D1352 Algorithms, Data Structures and Complexity	6	C	44	24	-	18			3	4	
2D1354 Algorithms and Complexity	4	C	30	18	-	-	1	2			
2D1363 Software Engineering <i>The course is given for the first time 04/05.</i>	8	D	40	-	-	-		2	3	4	
2D1373 Artificial Languages and Syntax Analysis	4	C	24	-	-	16			3		
2D1375 Implementation of Programming Languages	4	D	2	-	-	-	1	2			
2D1378 Text and Image Processing	4	B	28	18	-	-		2			
2D1381 Industrial Applications of Artificial Intelligence	4	C	36	-	-	-			3	4	
2D1385 Software Engineering	4	C	24	12	-	18			3		
2D1385 Software Engineering	4	C	24	12	-	18				4	
2D1387 Program System Construction Using C++	4	C	18	6	-	30	1	2			
2D1390 Internet Programming	4	C	28	-	-	26		2			
2D1396 Bioinformatics	4	D	30	-	-	16			3		
2D1410 User Centered Program Development	6	D	26	-	-	22			3	4	8 h Seminars 8 h Seminars
2D1413 Advanced Graphics and Interaction	6	D	50	-	-	12	1	2			
2D1418 Language Engineering	4	D	42	-	-	12	1				
2D1421 No translation <i>Replaces 2D1420.</i>	5	D	36	4	-	8			3		

2D1425 Computer Vision, Advanced Course <i>Replaces 2D1424.</i>	5	D	46	6	-	12			4	
2D1426 Robotics and Autonomous Systems*	5	D	16	-	-	60			4	
2D1431 Machine Learning	4	C	26	-	-	20	2			
2D1432 Artificial Neural Networks and Other Learning Systems	4	D	26	-	-	16		3		
2D1433 Artificial Neural Networks, Advanced Course	4	D	16	-	-	8			4	4 h Seminars4 h Seminars
2D1435 Mathematical Modelling of Biological Systems <i>The course is given every second year and will not be given 04/05.</i>	6	D	26	-	-	20				
2D1440 Advanced Algorithms	4	D	30	-	-	-	2			
2D1441 Seminars on Theoretical Computer Science <i>The course is given every second year and will be given in 04/05.</i>	4	D	30	-	-	-			4	
2D1446 Complexity Theory <i>The course is given every second year and will not be given in 04/05.</i>	4	D	30	-	-	-				
2D1449 Foundations of Cryptography	4	D	30	-	-	-		3		
2D1450 Algorithmic Bioinformatics	4	D	36	-	-	-			4	
2D1455 Theoretical Foundations of Object-Orientation	5	D	36	-	-	-			4	
2D1456 Advanced Functional Programming	4	D	28	-	-	14			4	
2D1458 Problem Solving and Programming under Pressure	6	C	26	-	-	52	1	2		
2D1464 Bigger Advanced, Individual Course in Computer Science <i>The course can be studied any time during the semesters.</i>	6	D	-	-	-	-				
2D1465 Advanced, Individual Course in Computer Science <i>The course can be studied any time during the semesters.</i>	4	D	-	-	-	-				
2D1469 Database Theory	4	D	31	17	-	-	1			
2D1471 Modern Database Systems and Their Application	5	D	26	8	-	-			4	
2D1482 Programming of Web Server Applications	4	D	16	-	-	30	1			
2D1482 Programming of Web Server Applications*	4	D	16	-	-	30			4	
2D1490 IP Routing in Simple Computer Networks*	5	D	32	8	-	32		3		
2D1491 IP-routing in Internet and Other Complex Networks*	5	D	24	8	-	32			4	
2D1492 Net Design, Project Course* <i>Not given 04/05.</i>	6	D	12	4	-	8				
2D1493 Seminars on grid computing and internetworking	4	D	24	-	-	16			4	
2D1522 Computer Technology and Communication*	4	C	30	-	-	20			4	
2D1600 Communication in Engineering Sciences	5	A	8	30	-	10	1	2		

2D1620 Human-Computer Interaction, Introductory Course	4	C	20	10	-	2	1				
2D1622 Human-Computer Interaction, Advanced Course	4	C	18	5	-	8		2			
2D1625 IT-design for the Disabled	4	A	18	-	-	-				4	Seminars 8 h
2D1631 Software support for prototyping	4	C	18	6	-	28	1	2			
2D1640 Graphics and Interaction Programming	6	C	42	8	-	42			3	4	
2D1650 Computer Game Design* <i>Limited number of participants.</i>	4	D	24	12	-	12		2			
2D1651 Computer Game Design with Advanced Graphics* <i>Limited number of participants.</i>	6	D	48	12	-	18	1	2			

*The course has limited participation

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Computer Networks

Computer Networks TDNVM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
6H3707 Network Security*_	5	C	-	-	-	-	1				
Conditionally Elective Courses											
6H3702 Communication Networks	5	C	-	-	-	-	1				
6H3703 The Internet Protocols	5	C	-	-	-	-		2			
6H3705 Router Technology and Multi-service Networks I	5	C	-	-	-	-	1				
6H3706 Router Technology and Multi-service Networks II	5	C	-	-	-	-		2			
6H3708 Queuing Theory	5	C	-	-	-	-		2			
6H3709 Transform Methods	5	C	-	-	-	-		2			
6H3710 Network Management	5	D	-	-	-	-			3		
6H3711 Simulation of Computer Networks	5	C	-	-	-	-			3		
6H3712 Wireless Networks	5	D	-	-	-	-				4	
6H3713 Routing in IP Networks	5	D	-	-	-	-				4	
6H3715 Database Technology	5	C	-	-	-	-			3		
6H3716 Human Computer Interaction	5	C	-	-	-	-			3		
6H3718 Network Java Programming	5	D	-	-	-	-				4	
6H3719 Webserver Programming	5	D	-	-	-	-				4	
6H3720 Distributed objectoriented systems	5	D	-	-	-	-				4	
6H3721 No translation	5	D	-	-	-	-				4	

*The course has limited participation

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Computer Networks

Computer Networks TDNVM2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
6H3700 Master's Project in Computer Networks	20	D	-	-	-	-	1	2			

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Design and Building

Design and Building TDOBM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
1A1H30 Sketch and Form <i>Under bearbetning</i>	4	A	-	-	-	-	1				
1A1H32 Art and Science <i>Under bearbetning</i>	4	C	-	-	-	-	1				
1A1H35 Infrastructure and City Planning (Project) <i>Under bearbetning</i>	9	C	-	-	-	-	1				
1A1H36 Restoration <i>Under bearbetning</i>	5	C	-	-	-	-					
1A1H37 The Economy of Building <i>Under bearbetning</i>	4	C	-	-	-	-					
1A1H38 Wide Span Buildings <i>Under bearbetning</i>	9	C	-	-	-	-					
1A1H40 Art Drawing and Modelling	6	A	-	-	-	-		2			
6H3730 Construction and Climate Planning	9	C	-	-	-	-	1	2			
Elective Courses											
1A1H41 Voluntary Croquis Drawing 1 <i>Under bearbetning</i>	1	A	-	-	-	-					
1A1H42 Voluntary Croquis Drawing <i>Under bearbetning</i>	1	B	-	-	-	-					

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Design and Building

Design and Building TDOBM2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
1A1H35 <u>Infrastructure and City Planning (Project)</u> <i>Under bearbetning</i>	9	C	-	-	-	-	1				
6H3730 <u>Construction and Climate Planning</u>	9	C	-	-	-	-	1				
Conditionally Elective Courses											
1A1H3A <u>Architectural Project X</u> <i>Under bearbetning</i>	10	C	-	-	-	-	2				
6H3797 <u>Master´s Project in Design and Building</u> <i>Under bearbetning</i>	10	C	-	-	-	-	2				
Elective Courses											
1A1H43 <u>Voluntary Croquis Drawing 3</u> <i>Under bearbetning</i>	1	B	-	-	-	-	1				

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Electric Power Engineering

Electric Power Engineering TEPEM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2C1115 <u>Power Systems, Basic Course</u>	5	C	32	36	-	-	1				
2C1134 <u>Electrotechnical Design</u>	5	C	36	-	-	8		2			
2C1241 <u>Electrical Machines and Drives</u>	5	D	30	20	-	12			3		
2C1242 <u>Power Electronics</u>	5	D	28	20	-	8	1				
Elective Courses											
2C1111 <u>System Planning</u>	4	D	60	-	-	-			3		
2C1116 <u>Power Systems, Advanced Course</u>	5	D	72	-	-	-		2			
2C1117 <u>Wind Power Systems</u> <i>Replaces 2C1114.</i>	5	C	58	-	-	-			3	4	
2C1132 <u>High-voltage Engineering</u>	5	C	26	-	-	12			3		Projects 50h
2C1148 <u>Analysis of Electrical Machines</u>	5	D	28	20	-	4				4	
2C1244 <u>Seminars in Electrical Machines and Power Electronics</u>	1	D	8	-	-	-			3	4	
2E1245 <u>Hybrid and Embedded Control Systems</u>	5	D	28	28	-	-			3		
2E1262 <u>Nonlinear Control</u>	5	D	28	28	-	8		2			
5C1400 <u>Nonlinear Dynamics in Mechanics</u>	5	C	24	-	-	-			3		

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Engineering Mechanics

Engineering Mechanics TEGMM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4C1110 Material Mechanics	4	D	52	-	-	3	1				
4C1130 Applied solid mechanics and finite element method	6	D	8	-	49	8		2	3		Project work 30h in P3
5C1214 Fluid Mechanics	5	C	-	30	30	3	1				
Elective Courses											
4C1111 Fracture Mechanics and Fatigue	4	D	48	-	-	4				4	
4C1118 Non-linear Theory of Elasticity	2	D	12	12	-	-				4	
4C1120 Experimental methods in mechanics	4	D	20	-	-	20			3		Seminars 4h
5C1212 Computational Fluid Dynamics	5	D	-	-	50	10			3		
5C1213 Applied Computational Fluid Dynamics	2	D	-	-	10	14				4	
5C1215 Compressible Flow	5	D	-	-	52	9		2			
5C1218 Turbulence <i>Replaces 5C1992.</i>	5	D	-	-	36	3			3	4	
5C1400 Nonlinear Dynamics in Mechanics	5	C	24	-	-	-			3		
5C1840 Structural Dynamics	5	D	33	-	-	-				4	44 h Workshop44 h Workshop
5C1860 FEM Modelling	5	D	33	-	-	-		2			33 h Workshop33 h Workshop

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Environmental Engineering and Sustainable Infrastructure

Environmental Engineering and Sustainable Infrastructure TESIM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
1B1634 Environmental Impact Assessment* <i>First prio: Students within TESIM-, L- and V-programs. Second prio: Incoming exchange-students LV.</i> <i>Under bearbetning</i>	5	C	30	26	-	-	1				8 h Exkursion8 h Exkursion
1H1142 Political Economy for Environmental Planners* <i>First prio: Students within TESIM-, L- and V-programs. Second prio: Incoming exchange-students LV.</i>	5	C	30	6	-	-	1				8 h Seminars
1U1030 Theory of Science, Research Methodology and Excursions	5	D	29	-	-	-	1	2		4	Exkursion 40hSeminars Exkursion 40h
Conditionally Elective Courses											
1B1291 Environmental Dynamics/Chemical Processes	5	D	24	-	-	-		2			Exercises/lab.work 30h
1B1292 Environmental Dynamics/Physical Processes <i>Under bearbetning</i>	5	C	26	24	-	-		2			
1H1143 Sustainable Rural and Urban Development* <i>First prio: Students within TESIM-, L- and V-programs. Second prio: Incoming exchange-students LV.</i>	5	C	32	-	16	-		2			24 h Seminars, 8 h Exkursion
1H1501 Human Settlements and Housing	5	D	24	20	-	-		2			
Recommended Courses											
1B1233 Water and Waste Handling <i>Under bearbetning</i>	5	C	-	-	77	-			3		
1B1333 Environmental Geology and Geophysics	5	D	27	27	-	-				4	
1B1635 Quantitative Hydrogeology <i>Under bearbetning</i>	5	D	20	14	-	6				4	20 h Field excursions, 15 h Computer20 h Field excursions, 15 h Computer
1B1640 Natural Resources Management	5	D	19	-	-	36				4	
1E1610 Environmental Data* <i>First prio: Students within TESIM-, L- and V-programs. Second prio: Incoming exchange-students LV.</i>	5	D	18	2	-	38			3		
1F1462 Management of Land and Water	5	D	25	-	-	-				4	21 h Seminars21 h Seminars
1H1141 Urban Infrastructure	5	D	-	-	54	-				4	

1H1146 Sustainable Project Management	5	C	35	-	-	30		3	15 h Field excursions
1M1203 Introductory course <i>Under bearbetning</i>	1	A	-	-	-	-	1		

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Photonics

Photonics TFOTM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2B1811 Optics	6	D	38	20	-	35	1				
2B1812 Microwave Engineering	5	D	36	18	-	10		2			
2B1813 Fiber-optical Communication <i>Under bearbetning</i>	5	D	28	14	-	8			3		
2B1814 Photonics <i>Under bearbetning</i>	5	D	38	-	-	8				4	
2B1821 Principles of Communications	4	D	24	12	-	-	1				
2B1822 Quantum Electronics <i>Under bearbetning</i>	5	D	30	18	-	-		2			
2B1823 Advanced Semiconductor Materials <i>Given at Campus Valhallavägen</i>	5	D	34	-	-	16			3		Study tour to a semiconductor industry
2B1824 Optical Networking	5	D	28	-	-	-				4	

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Geodesy and Geoinformatics

Geodesy and Geoinformatics TGGIM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Recommended Courses											
1E1160 <u>Satellite Geodesy</u>	5	D	22	-	-	30		2			
1E1450 <u>Integrated Project</u>	5	D	-	-	-	-				4	Introductory Lectures, Laborations, Project
1N1250 <u>Reference Systems</u>	5	C	30	-	-	40	1				
1N1253 <u>Physical Geodesy</u>	5	D	28	-	-	36			3		
1N1256 <u>Integrated Navigation</u>	5	D	30	-	-	30				4	
1N1653 <u>GIS Architecture</u>	5	C	24	-	-	48	1				
1N1656 <u>Visualisation Techniques</u>	5	C	24	-	-	48		2			
1N1660 <u>Spatial Analysis</u>	5	D	24	-	-	48			3		
Elective Courses											
1N1260 <u>Satellite Gravimetry</u>	5	D	20	-	-	-				4	Literature studies
1N1266 <u>Advanced Theory of Errors</u>	5	D	20	-	-	40			3		
1N1666 <u>Web-GIS</u>	5	D	24	-	-	48			3		
1N1669 <u>Spatial Reasoning</u>	5	D	24	-	-	48				4	

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Buildings and Building Services

Buildings and Building Services THITM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Compulsory Courses												
1D1111 Building Materials, Advanced Course	5	D	33	-	-	-	1				21 h Seminars, 8 h Workshop, 20 h Study visit	
1D1211 Building Technology, Advanced Course	5	D	33	44	-	-		2				
1D1213 Building Physics, Special Course	5	C	39	39	42	-	1					
1D1311 Building Services Engineering, Advanced Course	5	D	33	31	-	9		2			4 h Study visit	
6H3750 Calculation Methods and Visualization in the Design Process	5	C	36	20	-	-				4	5 h Seminars5 h Seminars	
6H3751 Climate System and Sustainable Energy Utilization	5	D	30	20	-	-			3		5 h Seminars5 h Seminars	
Conditionally Elective Courses												
1D1112 Fire in Buildings <i>Will not be given 04/05</i>	5	C	21	-	-	1			3		9 h Seminars, 8 h Computer, 15 h Workshop, 2 h Study visit	
1D1243 Building Acoustics	5	C	29	-	-	4	1				31 h Workshop31 h Workshop	
1D1314 Simulation	5	D	22	-	-	-				4	55 h Computer	
1D1316 Industrial Ventilation <i>Will not be given the academic year 04/05</i>	5	C	36	24	-	-	1	2			12 h Study visit	
1D1806 Building Operation and Maintenance <i>Will not be given 04/05</i>	5	D	40	12	-	-				4	8 h Seminars, 8 h Study visit	
1D1808 Building Damages	5	C	32	-	-	-				4	18 h Seminars, 6 h Workshop, 8 h Study visit	
6H3752 Computational Fluid Dynamics in Buildings	5	D	36	20	-	-				4	5 h Seminars5 h Seminars	

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Informations- och kommunikationssäkerhet

Informations- och kommunikationssäkerhet TIKSM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
211501 <u>Introduction to Information Security and its Environment</u> <i>The course cannot be included in an exam together with any of the courses 211030, 211273, 211278, 214075.</i>	10	D	22	-	-	16	1				Seminars 10 h
211502 <u>Introduction to Cryptography</u>	5	D	28	-	-	12		2			
211503 <u>Network Security</u> <i>Replaces 211274 from 04/05</i>	5	D	18	-	-	18		2			
211504 <u>Software Engineering and Security Architecture</u>	5	D	18	-	-	18			3		
211505 <u>Legal Aspects of Information Security</u>	5	D	24	-	-	12			3		
211506 <u>Security Management</u> <i>Cannot be included in an exam together with course 211050</i>	10	D	24	-	-	6				4	Seminars 18 hours
Elective Courses											
211401 <u>Research Methodology and Scientific Writing</u>	2	D	15	-	-	-	1				

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Informations- och kommunikationssäkerhet

Informations- och kommunikationssäkerhet TIKSM2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2I1020 Master's Project in Computer and Systems Sciences	20	D	-	-	-	-	1	2	3	4	
Conditionally Elective Courses											
2D1441 Seminars on Theoretical Computer Science <i>The course is given every second year and will be given in 04/05.</i>	4	D	30	-	-	-				4	
2G1517 Advanced Formal Methods	5	D	12	-	-	-				4	Seminars 6 hours
2G1701 Advanced Internetworking <i>The course is given in Kista.</i>	6	D	8	18	-	20	1				Group project, additional lectures online
2G1704 Internet Security and Privacy	5	D	30	10	-	-		2			assigned paper
2I1259 Value-Based Software Engineering <i>The course is not given 2004/05</i>	5	D	28	-	-	-				4	Seminar 14 h
2I1276 Security for Java Environment and Electronic Commerce	4	D	21	8	3	-	1		3		Extra Reading Materials 36h, Research Project 24h
2I1401 Research Methodology and Scientific Writing	2	D	15	-	-	-	1				
2I1511 Value Based Risk Management	5	D	12	12	-	-	1				

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Internetworking

Internetworking TINTM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2G1701 <u>Advanced Internetworking</u> <i>The course is given in Kista.</i>	6	D	8	18	-	20	1				Group project, additiona lectures online
2G1703 <u>Inter Domain Routing</u>	5	D	10	-	-	20		2			Home assignment
Conditionally Elective Courses											
2G1319 <u>Communication System Design</u> <i>Replaces 2G1303. Also given as 2G1711, 12 credits; 2G1712, 16 credits and 2G1713, 20 credits</i>	10	D	-	-	-	-			3	4	Project work
2G1325 <u>Practical Voice Over IP (VoIP)</u>	5	D	10	-	-	-				4	Assigned paper 50h
2G1330 <u>Wireless and Mobile Network Architectures</u>	5	D	10	-	-	-				4	Assigned paper 50h
2G1332 <u>Management of Networks and Networked Systems</u> <i>Given in Kista but also at Campus Valhallavägen through videoconnection</i>	5	D	20	-	-	20		2			
2G1704 <u>Internet Security and Privacy</u>	5	D	30	10	-	-		2			assigned paper
2G1711 <u>Communication System Design</u>	12	D	-	-	-	-			3	4	project
2G1712 <u>Communication System Design</u>	16	D	-	-	-	-			3	4	Project
2G1713 <u>Communication System Design</u>	20	D	-	-	-	-			3	4	Project
2G1720 <u>Global Entrepreneurial Leadership</u>	5	D	-	-	-	-		2			
2G1721 <u>Global IT Management</u>	5	D	20	-	10	-			3		Seminars and team project 10 h
2G1722 <u>Developing Mobile Applications</u>	5	D	20	-	-	10	1				
2G1723 <u>GSM Network and Services</u>	5	D	24	-	-	-			3		Exercises, 5 sessions Laboratory, 2 sessions
2G1725 <u>Management of IT-enabled Change</u>	5	D	-	-	20	-	1				Seminars 15 h

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Land Management

Land Management TLAMM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
1F1331 Real Estate Valuation*_	5	D	30	30	-	-				4	
1F1463 Real Estate Planning and Development, Continuation Course*_	5	C	34	42	-	-				4	
1F1467 Real Estate Planning and Development, Basic Course*_	5	C	25	45	-	-		2			
1F1469 Real Estate Law*_	5	C	31	34	-	-		2			
1F1472 Land Information Systems*_	6	D	32	56	-	-			3		
1F1473 Urban Land Management*_	5	C	22	52	-	-	1		3		
1N1301 Economics*_	3	A	16	18	-	-	1	2			2 h Workshop2 h Workshop
1N1302 Real Estate Investment Analysis*_	3	C	-	-	36	-	1	2			
1N1403 Comparative Law*_	3	A	50	-	-	-	1				

*The course has limited participation

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Sound and Vibration

Sound and Vibration TLJVM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4B1136 <u>Flow Acoustics</u>	4	D	-	36	-	8			3		
4B1160 <u>Introduction to noise control</u> <i>The course is open only to students of the TLJVM programme</i>	2	C	-	-	12	-	1				
4B1162 <u>Vibro-Acoustics</u>	7	D	-	-	64	8	1	2			
4B1164 <u>Signal Analysis</u>	5	D	-	-	26	22	1	2			
4B1166 <u>Acoustical Measurements</u>	5	D	-	-	18	18	1	2	3		
4B1168 <u>Energy Methods</u>	4	D	-	-	28	-			3	4	
Elective Courses											
2F1213 <u>Musical Communication and Music Technology</u>	5	D	28	8	-	12				4	Project assignment 30h
4B1131 <u>Experimental Structure Dynamics</u>	5	D	-	58	-	12		2	3		
4B1170 <u>Numerical Methods for Acoustics and Vibration</u>	4	D	-	-	24	-			3	4	
4B1172 <u>Non-Linear Acoustics</u>	4	D	-	-	24	-			3	4	
4B1174 <u>Ultrasonics</u>	4	D	-	-	24	-			3	4	
4B1176 <u>Vehicle Acoustics and Vibration</u>	4	D	-	-	24	-			3	4	
4B1425 <u>Ground Vehicle Dynamics, Basic Course*</u>	7	D	33	60	-	-			3	4	
5C1218 <u>Turbulence</u> <i>Replaces 5C1992.</i>	5	D	-	-	36	3			3	4	

*The course has limited participation

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Sound and Vibration

Sound and Vibration TLJVM2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Elective Courses											
1D1243 Building Acoustics	5	C	29	-	-	4	1				31 h Workshop31 h Workshop
4E1125 Fibre Composites II, Analysis and Design	4	D	2	-	-	6		2			

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Materials Processing

Materials Processing TMPEM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3E1401 Polymer Processing	4	C	24	-	8	-			3	4	
4M1335 Materials Processing, Laboratory Course	5	D	26	32	-	47			3	4	
4M1336 Physics for Materials Processing	5	C	16	16	-	-			3		Home assignments 60h
4M1345 Powder Processing and Materials Forming	4	D	30	-	-	-				4	Home assignments 80h
4M5303 Fluid Mechanics and Heat Transfer	4	D	20	16	-	-			3		Home assignment 60 h

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Materials Processing

Materials Processing TMPEM2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4M1051 <u>Project Assignment</u>	4	D	-	160	-	-	1	2			
4M1343 <u>Materials Processing, Project Support</u>	4	D	72	48	-	40	1	2			
4M1346 <u>Simulation and Modelling</u>	4	D	10	80	-	-	1	2			
4M1347 <u>Metal Forming</u>	4	D	8	28	-	-	1	2			
4M1370 <u>Solidification Processing</u>	4	D	36	24	-	-	1	2			

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Land Law and Property Development

Land Law and Property Development TMFJM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
1F1427 <u>Compulsory Purchase and Compensation</u>	5	D	32	32	-	-		2			
1F1430 <u>Land Development</u>	10	D	-	-	142	-	1	2			
1F1452 <u>Law of Real Estate Formation</u>	5	D	30	30	-	-	1				
1N1405 <u>Financing Law</u>	5	D	30	30	-	-			3		
1N1406 <u>Law of Planning, Construction and Infrastructure</u>	10	D	50	70	-	-			3	4	
1N1407 <u>Land Management</u>	5	D	-	-	-	-				4	Lectures/seminars 20h

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Human-Computer Interaction

Human-Computer Interaction TMDIM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1410 <u>User Centered Program Development</u>	6	D	26	-	-	22			3	4	8 h Seminars8 h Seminars
2D1620 <u>Human-Computer Interaction, Introductory Course</u>	4	C	20	10	-	2	1				
2D1622 <u>Human-Computer Interaction, Advanced Course</u>	4	C	18	5	-	8		2			
2D1631 <u>Software support for prototyping</u>	4	C	18	6	-	28	1	2			
Elective Courses											
2D1305 <u>Computer Science Methods</u>	4	C	18	6	-	28	1				
2D1400 <u>Interactive Media for Computer Scientists</u> <i>Probably not given 04/05.</i>	5	D	-	-	-	-	1				
2D1408 <u>Evaluation Methods in Human-Computer Interaction*</u>	4	D	10	14	-	-			3	4	2 h Seminars2 h Seminars
2D1413 <u>Advanced Graphics and Interaction</u>	6	D	50	-	-	12	1	2			
2D1416 <u>Computer Supported Cooperative Work</u> <i>Given every second year. Not given 05/06.</i>	6	D	30	-	-	15			3	4	
2D1418 <u>Language Engineering</u>	4	D	42	-	-	12	1				
2D1600 <u>Communication in Engineering Sciences</u>	5	A	8	30	-	10	1	2			
2D1601 <u>Communication and Media</u>	5	C	40	-	-	-			3	4	20 h Seminars20 h Seminars
2D1625 <u>IT-design for the Disabled</u>	4	A	18	-	-	-				4	Seminars 8 h
2D1630 <u>Behavioural Science</u>	4	C	28	8	-	-	1				
2D1640 <u>Graphics and Interaction Programming</u>	6	C	42	8	-	42			3	4	
2D1650 <u>Computer Game Design*</u> <i>Limited number of participants.</i>	4	D	24	12	-	12		2			
2D1651 <u>Computer Game Design with Advanced Graphics*</u> <i>Limited number of participants.</i>	6	D	48	12	-	18	1	2			
2I1130 <u>Cognitive Psychology</u>	4	B	30	12	-	-	1				
2I1150 <u>Theory of Knowledge and Philosophy of Science</u> <i>Not given 04/05.</i> <i>Under bearbetning</i>	4	B	30	12	-	80					

211703 Affective interaction	4	D	18	-	-	-	1		4	project 120 hours
4K1401 History of Technology, a General Survey	4	B	12	-	-	-			4	12 h Seminars12 h Seminars
<i>English on request. English on request.</i>										

*The course has limited participation

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Nanomaterials and nanotechnology

Nanomaterials and nanotechnology TNNTM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4H1711 <u>Nanomaterials and Nanotechnology</u>	4	D	20	-	12	-	1				
4H1712 <u>Bio-nanotechnology</u>	4	D	20	8	-	8	1				
4H1713 <u>Experimental techniques - surface</u>	4	D	36	-	-	8		2			
4H1714 <u>Experimental techniques - bulk</u>	4	D	20	-	-	20		2	3		
4H1715 <u>Nanostructured materials; functional, bio- and self assembly</u>	4	D	20	-	12	-		2	3		
4H1716 <u>Nanosemiconductors</u>	4	D	26	-	-	8			3		
4H1717 <u>Nano- and microsystems</u>	4	D	28	-	-	20				4	
Elective Courses											
4H1721 <u>Microstructural evolution</u>	4	D	24	-	24	-	1				
4H1722 <u>Solid state physics</u>	4	D	40	-	12	8	1				
4H1723 <u>Materials thermodynamics</u>	4	D	20	-	-	-	1	2			
4H1724 <u>Nanoscience and biotechnology</u>	4	D	36	-	-	10		2	3		
4H1725 <u>Simulation and modelling on the atomic scale</u>	4	D	20	-	20	-			3		
4H1728 <u>Advanced materials chemistry</u>	4	D	20	-	4	8			3	4	
4H1729 <u>Nano-biotechnology</u>	4	D	24	8	-	8			3	4	

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Software Engineering of Distributed Systems

Software Engineering of Distributed Systems TPVDM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2G1118 Network Programming with Java <i>In period 2 the course is given in Kista</i>	4	D	20	10	-	8		2			
2G1509 Distributed Systems, Basic Course	5	D	24	-	-	-	1				Project work 10 hours
2G1521 Formal Methods for SEDS	6	D	28	24	-	12	1				
2G1524 Distributed Artificial Intelligence and Intelligent Agents <i>The course is not electiv if the student has already taken 2I1235</i>	5	D	28	10	-	-		2			
Conditionally Elective Courses											
2G1114 Parallel Computer Systems	5	D	-	-	24	-		2			Individual project guidance: 2-5 h/ student. Home study time: 150 h
2G1117 Semantics for Programming Languages	4	D	20	10	-	-			3		
2G1121 Logic Programming <i>Given in Kista</i>	4	D	16	8	-	-	1				Individual work on project
2G1503 System Modeling and Simulation <i>The course is not given 2004/05</i>	6	B	24	-	-	-					Project work 12 h
2G1505 Theory of Automata	4	D	20	10	-	-		2			
2G1513 Distributed Systems, Advanced Course <i>Replaces 2G1126 from 2003/2004</i>	5	D	24	-	-	-				4	
2G1515 Constraint Programming	5	D	24	-	-	-		2			Project work 10 hours
2G1517 Advanced Formal Methods	5	D	12	-	-	-				4	Seminars 6 hours
2G1522 Modern Methods in Software Engineering	5	D	20	10	-	-				4	
2G1523 Programming Web-Services	5	D	20	10	-	-			3		
2G1526 Distribueted Computing, Peer-to-Peer and GRIDS	5	D	-	-	12	-			3		Assignment presentations 1 h per group
2G1915 Concurrent Programming <i>Replaces 2G1506, Programming with Processes In period 3, the course is given at Campus Valhallavägen.</i>	5	C	36	-	-	24			3		

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Project Management and Operational Development

Project Management and Operational Development TPLVM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
6S3726 Project Planning	5	AB	-	-	-	-	1				
6S3727 Project Control	5	AB	-	-	-	-		2			
6S3728 Project Analysis	5	AB	-	-	-	-			3		
6S3729 Leadership for Operational Development	5	C	-	-	-	-			3		
6S3730 Pratical Statistics	5	C	-	-	-	-	1				
6S3731 The Organisation and the Management System	5	C	-	-	-	-		2			

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Project Management and Operational Development

Project Management and Operational Development TPLVM2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
6S3798 Degree Project in Proj. Management&Operational Development <i>Under bearbetning</i>	10	C	-	-	-	-					

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Quantum Physics

Quantum Physics TQPHM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
5A1326 Relativity	4	C	28	20	-	-			3		
5A1329 Quantum Mechanics, Intermediate Course	5	D	34	28	-	-	1	2			
5A1332 Advanced Quantum Mechanics, Course I	5	D	36	-	-	-	1	2			
5A1350 Statistical Mechanics	4	C	24	24	-	-				4	
5A1456 Atomic and Molecular Physics	4	D	24	-	-	-	1				
5A1457 Atomic and Molecular Physics, Extended Course <i>The course can only be followed as an extension of 5A1456 Atomic-and Molecular Physics.</i>	2	D	4	-	-	20		2			
Elective Courses											
5A1310 Elementary Particle Physics	4	D	36	-	-	-				4	
5A1311 Theoretical Nuclear Physics	4	D	30	-	-	-			3	4	
5A1312 Astroparticle Physics	4	D	28	-	-	-			3		
5A1333 Advanced Quantum Mechanics, Course II <i>Given if there are enough interest. Please contact course administrator.</i>	4	D	32	-	-	-			3		
5A1335 Symmetries in Physics	4	D	30	-	-	-	1	2			
5A1370 Solid State Theory	4	D	36	-	-	-	1				
5A1405 Experimental Particle Physics	4	D	26	-	-	4		2			
5A1410 Nuclear Physics	4	D	24	-	-	25	1	2			
5A1420 Experimental Techniques for Nuclear and Particle Physics <i>Given if there are enough interest. Please contact course administrator.</i>	4	D	36	-	-	8		2			
5A1490 Laser Chemistry	4	D	24	-	-	12		2			
5A1495 Molecular Physics	5	D	34	10	-	-			3		

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Real Estate Management

Real Estate Management TREMM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
1F1332 <u>Investment Analysis</u>	5	C	30	30	-	-		2			
1F1333 <u>Real Estate Market Analysis and Development</u>	5	D	30	30	-	-			3		
1F1339 <u>Real Estate Finance and Economics</u>	5	D	30	30	-	-				4	
1H1157 <u>Urban and Regional Economics</u>	5	D	-	-	66	-		2			
1N1303 <u>Business Cycles in Construction and Real Estate Market</u>	5	C	30	30	-	-	1				
1N1304 <u>Research Methodology and Theory of Science</u>	5	C	20	30	-	-	1				
1N1305 <u>Financial Analysis</u>	5	C	30	30	-	-			3		
Recommended Courses											
1F1331 <u>Real Estate Valuation*</u>	5	D	30	30	-	-				4	
Elective Courses											
1F1565 <u>Facilities Management</u> <i>The course will not be given the academic year 04/05</i>	5	D	-	-	-	-					

*The course has limited participation

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Scientific Computing

Scientific Computing TSCOM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1251 <u>Applied Numerical Methods III</u>	6	C	36	4	-	28	1	2			
2D1255 <u>Numerical Solutions of Differential Equations</u>	5	D	30	-	-	4			3	4	
2D1260 <u>The Finite Element Method</u>	4	C	18	14	-	12		2			
2D1263 <u>Program Construction for Scientific Computing</u>	4	C	24	-	-	12			3	4	
2D1266 <u>Mathematical Models, Analysis and Simulation Part I</u>	5	C	48	-	-	12	1	2			
Elective Courses											
2D1253 <u>Numerical Algebra, Methods for Large Matrices</u>	4	D	24	-	-	12		2			
2D1257 <u>Visualization</u>	4	C	16	-	-	14			3		
2D1269 <u>Mathematical Models, Analysis and Simulation, part II</u> <i>Not given 04/05.</i>	5	D	42	-	-	12					
2D1274 <u>Computational Electromagnetics</u> <i>Not on the central schedule.</i>	5	D	24	-	-	12	1	2			
2D1290 <u>Advanced Numerical Analysis</u> <i>The course will not be on the central schedule.</i> <i>Not given 04/05.</i>	4	D	28	-	-	14					
3A1640 <u>Computational Chemistry</u>	5	D	20	-	-	-		2			
5C1212 <u>Computational Fluid Dynamics</u>	5	D	-	-	50	10			3		
5C1213 <u>Applied Computational Fluid Dynamics</u>	2	D	-	-	10	14				4	

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Scientific Computing

Scientific Computing TSCOM2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1258 Introduction to High Performance Computing*_ <i>Please note that the course starts in August. Will not be on the central schedule.</i>	5	C	40	-	-	40	1				
Elective Courses											
2D1020 Master Project in Numerical Analysis	20	D	-	-	-	-					

*The course has limited participation

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Spatial Planning

Spatial Planning TSPLM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
1H1157 Urban and Regional Economics	5	D	-	-	66	-		2			
1H1170 Sustainable Cities	10	D	-	-	120	-	1				
1H1171 Urban Governance	5	D	30	-	-	-			3		6 h Seminars6 h Seminars
1H1172 Futures Studies and Forecasts	5	D	-	-	36	-		2			10 h Computer10 h Computer
1H1174 Planning for Regional Development	10	D	27	26	-	-				4	Large Projecttask
1N1663 Spatial Planning with GIS	5	D	30	-	-	36			3		

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Sustainable Energy Engineering

Sustainable Energy Engineering TSEEM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4A1602 <u>Introduction to Energy Technology</u>	2	C	24	24	-	-	1				Study visits 4h
4A1605 <u>Sustainable Power Generation</u>	6	D	30	48	-	18	1	2			
4A1607 <u>Sustainable Energy Utilisation</u>	6	D	-	-	72	16	1	2			
4A1609 <u>Applied Energy Technology - Project Course</u>	6	D	12	-	-	-			3	4	Project 78h
4A1610 <u>Energy Management</u>	4	D	50	-	-	-		2	3		
4A1611 <u>Renewable Energy Technology</u>	4	D	-	-	52	-	1				Study visit 8h
4A1613 <u>Energy and Environment</u> <i>Examinator: Björn Palm, Tel 790 7453</i>	4	D	50	-	-	-			3	4	Study visit 6h
Conditionally Elective Courses											
4A1622 <u>Thermal Comfort and Indoor Climate</u>	4	D	54	-	-	-			3	4	Study visits 6h
4A1623 <u>Applied Refrigeration and Heat Pump Technology</u>	4	D	24	24	-	16			3	4	
4A1626 <u>Applied Heat and Power Technology</u>	4	D	36	12	-	8			3	4	Project assignment 8h
4A1627 <u>Applied Reactor Technology and Nuclear Power Safety</u>	4	D	48	-	-	-			3	4	Study visits 12h

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System-on-Chip Design

System-on-Chip Design TSOCM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Compulsory Courses												
2B1423 <u>ASIC-design Methodology with High-level Languages</u>	5	D	20	-	-	16				4	Project 12 hours	
2B1428 <u>Design of Digital Integrated Circuits - VLSI</u>	5	D	21	8	-	16	1	2				
2B1445 <u>Embedded Systems</u>	5	D	-	-	24	20	1				10 h SeminarsSelf study 150 h 10 h Seminars	
2B1447 <u>SoC Architectures</u>	4	D	20	8	-	-		2				
2B1512 <u>Digital Design with HDL</u> <i>Complementary course, 2B1428 Design of digital integrated circuits- VLSI</i>	6	D	28	-	-	36	1	2			Project 20 h	
Conditionally Elective Courses												
2B1429 <u>System Modelling</u>	5	D	20	12	-	-			3			
2B1450 <u>Electronic System Packaging</u>	5	D	20	-	-	16			3			
2B1453 <u>Design of Fault-tolerant Systems</u> <i>Under bearbetning</i>	4	D	24	6	-	-				4		
2B1455 <u>Anatomy of EDA CAD-tools</u> <i>Under bearbetning</i>	5	D	24	6	-	-			3			
2B1457 <u>Special Topics on SoC</u>	4	D	30	8	-	-				4		
2B1480 <u>Submicron Digital Circuits Design</u> <i>The course is similar to 2B1430.</i> <i>Under bearbetning</i>	5	D	24	8	-	16			3		The course is given in Kista	
2B1515 <u>Analog Electronics, Advanced Course</u> <i>Under bearbetning</i>	5	C	30	14	-	20			3		Project work	
2B1600 <u>Radio Electronics</u>	5	D	26	12	-	16				4		
2B1611 <u>Low Power Analog and Mixed Signal IC's</u> <i>The course replaces 2B1610</i>	5	D	-	14	42	-				4		

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Interactive Systems Engineering

Interactive Systems Engineering TINSM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Compulsory Courses												
211029 Human-Computer Interaction	4	B	27	-	-	-	1				Seminar 6 h,Project 80 h	
211703 Affective interaction	4	D	18	-	-	-	1			4	project 120 hours	
211705 Artificial Intelligence: Principles and Techniques	4	C	-	-	-	-	1					
211706 Programming of Interactive Systems	4	D	26	-	6	50	1	2				
211707 Cognitive and Social Science in HMI	4	D	20	-	6	-		2				
211708 Microsimulation <i>Under bearbetning</i>	4	D	16	-	1	6			3		Total 40 h guidancetime in cumputerhall	
211709 Collaborative computing	4	D	20	-	-	30			3			
211710 Ubiquitous Computing <i>Replaces course 211236 and 211237 start in P3, end in P4</i>	4	D	29	-	50	-			3	4	tutorials 6 h, seminars 5 h	
211713 Methodology for Interaction Design	4	C	30	-	-	40		2				
Conditionally Elective Courses												
211234 Machine Learning	4	D	36	-	-	-				4		
211235 Agent Programming <i>The course are not electiv if students already had read 2G1524</i>	4	D	18	-	-	3				4	Other 80 hours	
211711 Principles of Visualization	4	D	15	-	-	-				4	Seminarier/Seminars 12 h Lab/Laboratory work ca 136 h	
Elective Courses												
211704 Advanced, Individual Course in Human-Computer Interaction <i>The course can be studied any time during the academic year.</i> <i>Under bearbetning</i>	4	D	-	-	-	-						

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Engineering and Management of Information Systems

Engineering and Management of Information Systems TEMIM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2I1040 Knowledge and Software Reuse	4	C	18	18	-	40			3		
2I1228 Enterprise Computing and ERP Systems	5	D	14	12	-	60	1				80h
2I1401 Research Methodology and Scientific Writing	2	D	15	-	-	-	1				
2I1402 Processes for IT Project Management	4	D	24	-	-	-		2			9h
6B3402 Economy and Leadership for Project & Functional Management <i>Under bearbetning</i>	4	D	-	-	-	-		2			
6B3403 Project Management for IT Systems <i>Under bearbetning</i>	10	D	-	-	-	-	1	2	3	4	
Conditionally Elective Courses											
2C1520 Requirements Engineering	5	D	22	6	-	-				4	
2G1721 Global IT Management	5	D	20	-	10	-			3		Seminars and team project 10 h
2G1725 Management of IT-enabled Change	5	D	-	-	20	-	1				Seminars 15 h
2I1041 Software Evolution and Maintenance <i>not started VT2005 This course is a part-time course (75%), meaning that you accomplish 4 credits within 6 weeks.</i>	4	C	21	16	-	9					group counselling 1h
2I1052 Internet Information Search Techniques <i>the course is moved to spring 2005, period 4</i>	4	C	-	-	-	-				4	
2I1053 Internet and ERP Systems	5	C	12	-	-	-	1				Project work 80 h
2I1056 Relational Database Design - Logical and Physical	4	C	12	12	-	60		2			Computer tutorials and hand in assignments 80h
2I1224 Data Warehousing	4	D	15	10	-	30				4	
2I1229 Knowledge Management	4	D	28	-	-	18				4	70h
2I1242 Models and Languages for Object and Web Databases	5	D	21	15	-	-			3		other work 75h
2I1259 Value-Based Software Engineering <i>The course is not given 2004/05</i>	5	D	28	-	-	-				4	Seminar 14 h

211273 Principles of Computer Security <i>The course cannot be included in an exam that already includes one of the courses 211030, 211501, 211502, 211278, 214075.</i>	4	D	24	-	-	12	1				Seminar paper 24 hours
211404 Model-driven Development of Components	5	D	20	35	-	110	2				
211406 Mobile Business	5	D	18	12	-	-			3		Project work 80 h
211407 Foundations of Information Systems <i>Not given 2004/2005</i>	5	D	15	-	-	-				4	
211408 Projects and Powergames	4	D	24	-	-	-	2				Seminars 15 hours
211409 Complex Social Networks	4	D	20	-	-	-	2				
211410 Current Problems in Information Systems	5	D	-	-	-	-	1	2	3	4	Individual studies
211412 Managing Organisational Learning	4	D	12	-	-	-		2			16 Seminars
211413 Business Intelligence	4	D	12	-	-	4	1				
6B3401 Marketing Management and Information Technology <i>Under bearbetning</i>	5	C	-	-	-	-			3		

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Engineering and Management of Information Systems

Engineering and Management of Information Systems TEMIM2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
211020 Master's Project in Computer and Systems Sciences	20	D	-	-	-	-	1	2	3	4	

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Philosophy of Science and Technology

Philosophy of Technology TFILM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Conditionally Elective Courses											
1H1601 Mathematics and Reality	5	C	20	10	-	-				4	
1H1602 Good and Bad Science	5	C	32	-	-	-			3	4	
1H1603 Technology and Ethics	5	C	20	-	-	-	1				Seminars 8h
1H1603 Technology and Ethics	5	C	20	-	-	-			3		Seminars 8h
1H1604 Philosophy of Risk	5	C	18	-	-	-		2			12 h Seminars
1N1106 Philosophy of Science	5	D	20	-	-	6	1				Seminars 4h
1N1106 Philosophy of Science	5	D	20	-	-	6			3		Seminars 4h
1N1107 Information Analysis	5	C	14	14	-	-				4	
1N1108 Computer- and Information Ethics	5	C	20	10	-	-			3		
1N1109 Ethics of Biotechnology	5	C	24	-	-	-	1	2			Seminars 6h, individual essay-tutorials
1N1111 The Epistemology of Technology	5	D	20	-	-	-				4	10 h Seminars
1N1113 Aesthetics and Technology	5	C	20	10	-	-		2			
1N1115 Individual Course in Philosophy <i>Under bearbetning</i>	5	D	-	-	-	-					Non-scheduled
1N1116 Political Philosophy	5	C	20	-	-	-		2			Seminars 10h
1N1117 Decision Theory	5	C	20	-	-	-	1				Seminars 10h
1N1118 Gender, Philosophy and Technology	5	C	20	-	-	-			3		Seminars 10h
1N1119 Management Ethics	5	C	20	-	-	-	1				Seminars 8h
1N1120 Introduction to Research Ethics <i>Intensive course week 47</i> <i>Under bearbetning</i>	2	C	10	-	-	-		2			
1N1121 Advanced Course in Research Ethics <i>Under bearbetning</i>	3	D	-	-	-	-		2			Tutorials/Seminars
1N1122 Advanced Course in Ethics <i>Under bearbetning</i>	5	C	-	-	-	-				4	Seminars 28h

Philosophy of Technology TFILM2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											



1N1004 Master's Thesis in Philosophy	20	D	-	-	-	-					
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Philosophy of Science and Technology

Philosophy of Science TFILM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Compulsory Courses												
1H1602 <u>Good and Bad Science</u>	5	C	32	-	-	-			3	4		
1H1604 <u>Philosophy of Risk</u>	5	C	18	-	-	-		2			12 h Seminars	
1N1106 <u>Philosophy of Science</u>	5	D	20	-	-	6			3		Seminars 4h	
1N1106 <u>Philosophy of Science</u>	5	D	20	-	-	6	1				Seminars 4h	
1N1109 <u>Ethics of Biotechnology</u>	5	C	24	-	-	-	1	2			Seminars 6h, individual essay-tutorials	
1N1120 <u>Introduction to Research Ethics</u> <i>Intensive course week 47</i> <i>Under bearbetning</i>	2	C	10	-	-	-		2				
1N1121 <u>Advanced Course in Research Ethics</u> <i>Under bearbetning</i>	3	D	-	-	-	-		2			Tutorials/Seminars	
1N1123 <u>Philosophy of the Natural Sciences</u> <i>Will be given from 05/06</i> <i>Under bearbetning</i>	5	C	20	-	-	-		2			Seminars 10h	
Conditionally Elective Courses												
1H1601 <u>Mathematics and Reality</u>	5	C	20	10	-	-				4		
1N1107 <u>Information Analysis</u>	5	C	14	14	-	-				4		
1N1111 <u>The Epistemology of Technology</u>	5	D	20	-	-	-				4	10 h Seminars	
1N1113 <u>Aesthetics and Technology</u>	5	C	20	10	-	-		2				
1N1115 <u>Individual Course in Philosophy</u> <i>Under bearbetning</i>	5	D	-	-	-	-					Non-scheduled	
1N1116 <u>Political Philosophy</u>	5	C	20	-	-	-		2			Seminars 10h	
1N1117 <u>Decision Theory</u>	5	C	20	-	-	-	1				Seminars 10h	
1N1118 <u>Gender, Philosophy and Technology</u>	5	C	20	-	-	-			3		Seminars 10h	
1N1122 <u>Advanced Course in Ethics</u> <i>Under bearbetning</i>	5	C	-	-	-	-				4	Seminars 28h	

Philosophy of Science TFILM2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
1N1004 Master's Thesis in Philosophy	20	D	-	-	-	-					

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Applied Information Technology

Applied Information Technology TTITM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2I1601 <u>Research Methodology and Scientific Writing</u> <i>Under bearbetning</i>	3	C	20	-	-	-		2			
2I1613 <u>Scientific communication and research methodology</u>	3		14	-	-	-		2			
Elective Courses											
2B1120 <u>Introductory Physics</u>	4	B	-	-	-	-		2			
2B1350 <u>Electromagnetism and Waves</u>	4	B	-	-	-	-			3		
2I1037 <u>Network Security</u>	5	C	21	-	-	3				4	
2I1038 <u>Legal Aspects of Information Security</u>	5	C	24	4	-	-				4	
2I1604 <u>Project Management and Group Dynamics</u>	3	B	18	-	-	24	1				Seminars 15 hours
5B1118 <u>Discrete Mathematics</u>	5	AB	-	-	-	-		2	3	4	
5B1140 <u>Analytical Methods and Linear Algebra I, IT</u>	8	AB	-	-	-	-	1	2			
5B1141 <u>Analytical Methods and Linear Algebra II, IT</u>	8	AB	-	-	-	-			3	4	
5B1506 <u>Mathematical Statistics, Basic Course</u>	6	C	36	48	-	-	1	2	3	4	
6B2016 <u>Discreet Mathematics</u>	5	AB	20	20	-	20	1				
6B2060 <u>Mathematics for Programmers</u>	5	C	-	-	-	-	1				
6B2120 <u>Calculus</u>	5	B	-	-	30	-	1				
6B2121 <u>Electrical Principals</u>	5	B	22	20	-	16	1			4	
6B2906 <u>Mathematics, Linear Algebra</u>	5	B	28	24	-	12					

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Applied Information Technology

Applied Information Technology TTITM2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Conditionally Elective Courses											
2I1021 Master's Project in Applied Information Technology <i>Under bearbetning</i>	20	D	-	-	-	-	1	2	3	4	
6B3400 Master's Project in Applied Information Technology	20	D	-	-	-	-	1	2	3	4	

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Applied Information Technology

General IT TTITM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Elective Courses												
<u>2I1027 Computer Science, Basic Course</u> <i>Under bearbetning</i>	6	B	25	21	24	44	1	2	3			
<u>6B2408 Multimedia Programming</u>	4	B	14	12	-	10			3			
<u>6B2907 Object Oriented Programming, General Course</u>	5	B	34	12	-	24	1	2				
<u>6B2934 Unix Basics</u>	5	B	6	28	-	36			3			
<u>6B2940 Computer Networks</u>	5	AB	-	-	-	-		2		4		
<u>6B3035 Object Oriented Programming using C# and .NET</u>	5	B	16	8	-	46			3			

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Applied Logistics

Applied Logistics TTILM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
6S3701 The Logistic Process	5	AB	-	-	-	-	1				
6S3702 Purchasing and Supply Chains	5	AB	-	-	-	-		2			
Elective Courses											
6S3703 Legislation Issues in Logistics	5	C	-	-	-	-			3		
6S3704 Leadership and Personal Development	5	AB	-	-	-	-				4	

Sidansvarig: Studiehandboksredaktionen, studiehandbok@kth.se

Uppdaterad: 2004-03-01

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Applied Logistics

Applied Logistics TTILM2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
6S3706 Transportation System <i>Under bearbetning</i>	5	C	-	-	-	-	1				
6S3707 Logistics, Intermediate Course <i>Under bearbetning</i>	5	C	-	-	-	-	2				
6S3799 Degree Project in Applied Logistics <i>Under bearbetning</i>	10	C	-	-	-	-		3	4		

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Wireless Systems

Wireless Systems TWSSM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2E1422 <u>Introduction to Signal Theory</u>	3	C	18	10	-	-	1				
2E1432 <u>Digital Communications</u>	6	C	32	30	-	12	1	2			
2E1511 <u>Radio Communication, Basic Course</u>	4	D	24	24	-	8	1				
Elective Courses											
2B1600 <u>Radio Electronics</u>	5	D	26	12	-	16				4	
2E1340 <u>Digital Signal Processing</u>	5	C	26	24	-	3		2			
2E1350 <u>Adaptive Signal Processing</u>	4	D	24	14	-	-			3		
2E1367 <u>Project Course in Signal Processing&Digital Communications</u>	8	D	-	-	-	-				4	Project work 8 cr.
2E1381 <u>Seminars in Wireless Systems</u>	2	D	-	-	-	-			3	4	Seminars 16h
2E1400 <u>Speech Signal Processing</u> <i>Replaces 2F1521.</i>	4	D	24	24	-	-		2			
2E1405 <u>Image Processing</u>	4	D	24	24	-	-				4	
2E1410 <u>Information Theory and Source Coding, Accel Program Course</u>	5	D	36	12	-	-			3		
2E1436 <u>Advanced Digital Communications</u>	4	D	26	26	-	-			3		
2E1512 <u>Wireless Networks*</u>	8	D	30	24	-	12				4	80 h Projektuppgift80 h Projektuppgift
2G1305 <u>Internetworking</u> <i>Given at Campus Valhallavägen</i>	4		20	14	-	8	1				
2G1318 <u>Queuing Theory and Teletraffic Systems</u>	4	D	24	24	-	-		2			
2G1319 <u>Communication System Design</u> <i>Replaces 2G1303. Also given as 2G1711, 12 credits; 2G1712, 16 credits and 2G1713, 20 credits</i>	10	D	-	-	-	-			3	4	Project work
2G1330 <u>Wireless and Mobile Network Architectures</u>	5	D	10	-	-	-				4	Assigned paper 50h
2H1260 <u>Antenna Theory</u>	5	D	26	24	-	18			3		

*The course has limited participation