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 *Under bearbetning*	4	D	24	-	-	-	1				
5A1582 Physics of Biomedical Microscopy *Under bearbetning*	4	D	28	-	-	20		2			
5A1584 Cellular Biophysics *Under bearbetning*	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	4	D	32	-	-	-	1	2			
Elective Courses											
5A1350 Statistical Mechanics *Under bearbetning*	4	C	24	24	-	-				4	
5A1351 Non-equilibrium Statistical Mechanics *Under bearbetning*	4	D	24	-	-	-				4	
5A1354 Computational Physics *Under bearbetning*	6	D	30	-	-	20	1				
5A1358 Membrane Physics *Under bearbetning*	4	D	24	-	-	-			3		
5A1414 Radiation Detectors and Medical Imaging Systems	5	D	24	-	-	15			3	4	6 h Seminars, 20 h Study visit6 h Seminars, 20 h Study visit
5A1416 Radiation Sources for Therapy	2	D	10	-	-	-				4	14 h Study visit14 h Study visit
5A1490 Laser Chemistry *Under bearbetning*	4	D	24	-	-	12		2			
5A1491 Femtochemistry *Under bearbetning*	5	D	36	-	-	-			3		
5A1495 Molecular Physics *Under bearbetning*	5	D	34	10	-	-			3		
5A1511 Optical Physics *Under bearbetning*	4	D	26	14	-	25	1				
5A1512 Optical Physics, Extended Course *Can only be studied together with 5A1511.* *Under bearbetning*	2	D	12	6	-	10	1				
5A1585 Cellular Biophysics II *Given in period 4 if there is a sufficient demand.*	4	D	20	-	-	8				4	

5A1587 Experimental Biomolecular Physics, Advanced Course *Given in period 4 if there is a sufficient demand*	4	D	20	-	-	-				4	12 h Seminars12 h Seminars

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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											
2D1110 Complementary Course in Mathematics for Computer Scientists	5	AB	-	-	32	6	1				
2D1220 Applied Numerical Methods I	4	C	36	-	-	18			3	4	
2D1240 Numerical Methods, Basic Course II	4	A	24	14	-	18	1	2			
2D1240 Numerical Methods, Basic Course II	4	A	24	14	-	18			3	4	
2D1257 Visualization	4	C	16	-	-	14			3		
2D1323 Computer Graphics and Interaction *Allowed for all programmes except D.*	4	C	42	-	-	12				4	
2D1334 Database Technology	4	C	24	20	-	12			3		
2D1352 Algorithms, Data Structures and Complexity	6	C	44	24	-	18			3	4	
2D1354 Algorithms and Complexity	4	C	30	18	-	-	1	2			
2D1361 Programming Paradigms	5	C	42	-	-	24	1	2			
2D1363 Software Engineering	8	D	40	-	-	-		2	3	4	
2D1373 Artificial Languages and Syntax Analysis	4	C	24	-	-	16			3		
2D1375 Implementation of Programming Languages *Self-study course.*	4	D	2	-	-	-	1	2			
2D1377 Computer Architecture and Proogramming Close to the Computer	5	C	28	-	-	24			3		
2D1378 Text and Image Processing *Not given 05/06.*	4	B	28	18	-	-					
2D1380 Artificial Intelligence	4	C	24	4	-	30	1				
2D1381 Industrial Applications of Artificial Intelligence	4	C	36	-	-	-	1	2			
2D1385 Software Engineering	4	C	24	12	-	18				4	
2D1387 Program System Construction Using C++	4	C	18	6	-	32	1	2			
2D1390 Internet Programming	4	C	28	-	-	26		2			
2D1410 User Centered Program Development	6	D	26	-	-	22			3	4	

2D1413 Advanced Graphics and Interaction	6	D	46	-	-	12	1	2			
2D1418 Language Engineering	4	D	40	-	-	12	1				
2D1421 Image Analysis and Computer Vision	5	D	36	4	-	8			3		
2D1425 Computer Vision, Advanced Course	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	6	D	26	-	-	20	1	2			
2D1440 Advanced Algorithms	4	D	30	-	-	-		2			
2D1446 Complexity Theory *The course is given every second year and will be given in 05/06.*	4	D	30	-	-	-				4	
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				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 *The course can be studied any time during the semesters.*	6	D	-	-	-	-					
2D1465 Advanced, Individual Course in Computer Science *The course can be studied any time during the semesters.*	4	D	-	-	-	-					
2D1469 Database Theory	4	D	31	17	-	-	1				
2D1471 Modern Database Systems and Their Applications	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			3		
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* *The course is given every second year. Given 05/06.*	6	D	12	4	-	8	1	2			
2D1493 Seminars on Grid Computing and Internetworking *The course is given every second year. Not given 05/06.*	4	D	24	-	-	16					
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	-	-	8				4	Seminars 8 h
2D1631 Software Support for Prototyping	4	C	18	6	-	28	1	2			
2D1640 Graphics and Interaction Programming	6	C	36	14	-	42			3	4	
2D1650 Computer Game Design* *Limited number of participants.*	4	D	24	6	-	4		2			
2D1651 Computer Game Design with Advanced Graphics* *Limited number of participants.*	6	D	48	6	-	10	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	-	-	-	-		2			
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	-	-	-	-	1				
6H3709 Transform Methods	5	A	-	-	-	-	1				
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	-	-	-	-					
6H3716 Human Computer Interaction	5	C	-	-	-	-					
6H3719 Web-server Programming	5	D	-	-	-	-					
6H3720 Distributed Objectoriented Systems	5	D	-	-	-	-					
6H3721 Programming of Mobile Services	5	D	-	-	-	-				4	
6H3722 Network security, continuation course	5	C	-	-	-	-		2			
6H3723 Network Java Programming	5	C	-	-	-	-			3		
Elective Courses											
6H3704 Transformations and Numerical Analysis	5	A	-	-	-	-	1				
6H3714 Numerical Analysis and Calculus of Several Variables	5	A	-	-	-	-	1				

*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	4	A	-	-	-	-	1				
1A1H36 Restoration	5	C	-	-	-	-			3		
1A1H38 Wide Span Buildings	9	C	-	-	-	-	1	2	3		
1A1H40 Art Drawing and Modelling	6	A	-	-	-	-		2			
6H3731 Indoor Climate and Coordination of Building Services *Under bearbetning*	5	C	-	-	-	-				4	
6H3732 Project Design Management *Under bearbetning*	5	C	-	-	-	-	1				
6H3734 Production and Economics in Building Construction *Under bearbetning*	5	D	-	-	-	-				4	
Elective Courses											
1A1H41 Voluntary Croquis Drawing 1 *Under bearbetning*	1	A	-	-	-	-					
1A1H42 Voluntary Croquis Drawing *Under bearbetning*	1	B	-	-	-	-					

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Design and Building

Design and Building TDOBM2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods 1	2	3	4	Other
Compulsory Courses											
1A1H35 Infrastructure and City Planning (Project)	9	C	-	-	-	-	1				
6H3730 Construction and Climate Planning *Under bearbetning*	9	C	-	-	-	-	1				
Conditionally Elective Courses											
1A1H3A Architectural Project X *Under bearbetning*	10	C	-	-	-	-		2			
6H3797 Master´s Project in Design and Building *Under bearbetning*	10	C	-	-	-	-		2			
Elective Courses											
1A1H43 Voluntary Croquis Drawing 3 *Under bearbetning*	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 Power Systems, Basic Course	5	C	68	-	-	-	1				
2C1134 Electrotechnical Design	5	C	36	-	-	8		2			
2C1241 Electrical Machines and Drives	5	D	30	20	-	12			3		
2C1242 Power Electronics	5	D	28	20	-	8	1				1 design project
Elective Courses											
2C1116 Power Systems, Advanced Course	5	D	72	-	-	-		2			
2C1117 Wind Power Systems *Replaces 2C1114.*	5	C	60	-	-	-			3	4	
2C1118 System Planning *Replaces 2C1111.*	5	C	70	-	-	3			3		
2C1132 High-voltage Engineering	5	C	26	-	-	12				4	
2C1148 Analysis of Electrical Machines	5	D	28	20	-	4				4	
2C1244 Seminars in Electrical Machines and Power Electronics	1	D	8	-	-	-	1	2			
2C1244 Seminars in Electrical Machines and Power Electronics	1	D	8	-	-	-			3	4	
2E1245 Hybrid and Embedded Control Systems	5	D	28	28	-	-			3		
2E1262 Nonlinear Control	5	D	28	28	-	8		2			

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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				
4C1122 Applied solid mechanics	6	D	28	16	14	24	1	2			
5C1214 Fluid Mechanics	5	C	-	30	30	3	1				
Elective Courses											
4C1111 Fracture Mechanics and Fatigue	4	D	48	-	-	4				4	
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 *Replaces 5C1992.*	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* *First prio: Students within TESIM-, L- and V-programs. Second prio: Incoming exchange-students LV.*	5	C	30	26	-	-	1				8 h Exkursion8 h Exkursion
1H1142 Political Economy for Environmental Planners* *First prio: Students within TESIM-, L- and V-programs. Second prio: Incoming exchange-students LV.*	5	C	30	6	-	-	1				8 h Seminars
1U1030 Theory of Science, Research Methodology and Excursions *Under bearbetning*	5	D	29	-	-	-	1	2		4	Exkursion 40hSeminars Exkursion 40h
Conditionally Elective Courses											
1B1291 Environmental Dynamics/Chemical Processes *Under bearbetning*	5	D	24	-	-	-		2			Exercises/lab.work 30h
1B1292 Environmental Dynamics/Physical Processes	5	C	26	24	-	-		2			
1H1143 Sustainable Rural and Urban Development* *First prio: Students within TESIM-, L- and V-programs. Second prio: Incoming exchange-students LV.* *Under bearbetning*	5	C	32	-	16	-		2			24 h Seminars, 8 h Exkursion
1H1501 Human Settlements and Housing *Under bearbetning*	5	D	24	20	-	-		2			
Recommended Courses											
1B1233 Water and Waste Handling	5	C	-	-	77	-			3		
1B1333 Environmental Geology and Geophysics *Under bearbetning*	5	D	27	27	-	-				4	
1B1635 Quantitative Hydrogeology	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* *First prio: Students within TESIM-, L- and V-programs. Second prio: Incoming exchange-students LV.* *Under bearbetning*	5	D	18	2	-	38			3		
1F1462 Management of Land and Water	5	D	22	-	-	-			3		23h Seminars

1H1141 Urban Infrastructure	5	D	-	-	54	-				4	
1H1146 Sustainable Project Management *Under bearbetning*	5	C	35	-	-	30			3		15 h Field excursions

*The course has limited participation

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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	5	D	28	14	-	8			3		
2B1814 Photonics	5	D	38	-	-	8				4	
2B1821 Principles of Communications	4	D	24	12	-	-	1				
2B1822 Quantum Electronics	5	D	24	16	-	-		2			
2B1823 Advanced Semiconductor Materials	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

At least two of the recommended courses must be ful-filled in addition to compulsory courses

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
1N1250 Reference Systems	5	C	30	-	-	40	1				
1N1257 Satellite Positioning with GPS	5	D	22	-	-	30		2			Field exercises 4d
1N1653 GIS Architecture	5	C	24	-	-	48	1				
1N1660 Spatial Analysis	5	D	24	-	-	48		2			
Recommended Courses											
1N1253 Physical Geodesy	5	D	28	-	-	36			3		
1N1256 Integrated Navigation	5	D	30	-	-	30				4	
1N1260 Satellite Gravimetry	5	D	20	-	-	-				4	Project 40h
1N1266 Advanced Theory of Errors	5	D	20	-	-	40			3		
1N1655 Digital Image Processing and Applications	5	D	44	-	-	60			3		Filed exercises 4d
1N1656 Visualisation Techniques	5	C	24	-	-	48			3		
1N1657 A GIS Project	5	D	-	-	-	40				4	Seminars 24h
1N1666 Web-GIS	5	D	24	-	-	48				4	
Elective Courses											
1E1440 Digital Photogrammetry	5	D	24	-	-	32	1				

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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 *Under bearbetning*	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 *Under bearbetning*	5	C	36	20	-	-				4	5 h Seminars5 h Seminars
6H3751 Climate System and Sustainable Energy Utilization *Under bearbetning*	5	D	30	20	-	-			3		5 h Seminars5 h Seminars
Conditionally Elective Courses											
1D1112 Fire in Buildings	5	C	21	-	-	1			3		9 h Seminars, 8 h Computer, 15 h Workshop, 2 h Study visit
1D1243 Building Acoustics *Under bearbetning*	5	C	29	-	-	4	1				31 h Workshop31 h Workshop
1D1314 Simulation	5	D	22	-	-	-				4	55 h Computer
1D1316 Industrial Ventilation *Will not be given 05/06*	5	C	36	24	-	-	1	2			12 h Study visit
1D1806 Building Operation and Maintenance	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 *Under bearbetning*	5	D	36	20	-	-				4	5 h Seminars5 h Seminars

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Industrial Ecology

Industrial Ecology TIEKM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3C1345 Environmental Technology and Environmental Impact Studies	4	D	32	4	-	-			3		8 h Projektuppgift8 h Projektuppgift
3C1387 Environmental Systems Analysis	4	C	16	8	-	6		2			
3C1395 Technology and Sustainable Development	4	C	2	6	-	-		2			
Recommended Courses											
3A1104 Environmental Toxicology	6	C	36	14	-	-	1	2			
3B1102 Analytical Chemistry	4	C	16	-	-	16			3		
3B1211 Quantum Chemistry and Spectroscopy	6	D	48	-	-	8	1				
3B1223 Molecular Thermodynamics	4	D	24	4	-	-			3		
3B1231 NMR-spectroscopy	4	D	30	-	-	12		2			
3B1242 Technical Surface Colloid Chemistry	4	C	32	6	-	12			3		
3B1301 Nuclear Chemistry	5	C	30	-	-	20		2			
3B1312 Nuclear Fuel Cycle	4	D	16	-	-	6			3		Project
3B1321 Radical Chemistry	5	C	30	-	-	-			3		
3B1443 Atmosphere, Aquatic and Terrestrial Chemistry	5	C	12	10	-	24				4	
3B1451 Bio-inorganic Chemistry	5	D	20	6	-	15				4	
3B1456 Inorganic Materials Chemistry	5	D	20	6	-	15				4	
3B1482 Structural Chemistry	5	D	16	6	-	16	1				
3B1483 Nano-strucured Materials	5	D	16	6	-	16		2			
3B1511 Organic Chemistry, Advanced Course 1	9	C	12	6	54	-	1			4	
3B1521 Organic Chemistry, Theory, Advanced Course 1	5	C	12	6	-	-				4	
3B1542 Organic Chemistry, Advanced Course II	5	D	24	-	-	40			3		
3B1544 Applied Organic Molecular Spectroscopy	4	D	-	-	-	-	1				
3B1700 Introductory Chemistry	4	A	24	18	-	22	1				
3B1711 Chemical Equilibria	4	B	12	22	-	25			3	4	
3B1725 Chemical Thermodynamics	4	B	28	30	-	-	1				

3B1730 Molecular Structure	5	B	36	22	-	20		2	3		
3B1740 Chemical Dynamics	4	B	20	20	-	15			3		
3B1750 Organic Chemistry 1	5	B	20	14	-	42		2			
3B1760 Organic Chemistry 2	5	B	14	10	-	42				4	6 h Computer6 h Computer
3B1770 Chemical Measuring Techniques	5	B	22	4	-	12	1				
3B1781 Inorganic Chemistry	4	D	20	6	-	16				4	
3C1330 Technology and Ecosystems	4	B	24	3	-	-	1				
3C1343 Environmental Technology, Advanced Course II	6	D	-	-	-	-					
3C1345 Environmental Technology and Environmental Impact Studies	4	D	32	4	-	-			3		8 h Projektuppgift8 h Projektuppgift
3C1347 Env. Technology and Env. Impact Studies, Larger Course	8	D	32	16	-	24			3	4	
3C1350 Waste Management, Advanced Course *Study visit*	4	D	18	-	-	-				4	Project work 20h
3C1355 Ecology, Advanced Course	4	C	21	4	-	-			3	4	
3C1365 Environmental Consequences, Advanced Course II	4	D	15	15	-	40	1	2			Field exercises
3C1380 Environmental Management	4	C	10	-	-	-			3		12 h Seminars12 h Seminars
3C1383 Risk Management	4	C	16	30	-	-	1				
3C1387 Environmental Systems Analysis	4	C	16	8	-	6		2			
3C1395 Technology and Sustainable Development	4	C	2	6	-	-		2			
3C1422 Industrial Energy Processes	5	D	20	20	-	-	1	2			
3C1451 Introduction to Chemical Engineering	7	B	39	26	-	-		2	3		Plant Trip 1 day
3C1524 Chemical Engineering	6	D	16	18	-	12				4	
3C1616 Reaction and Separation Engineering	7	C	-	-	-	12		2	3		8 h Seminars, 10 h Computer, 8 h Study visit8 h Seminars, 10 h Computer, 8 h Study visit
3C1621 Process Chemistry	5	D	36	72	-	-			3		10 h Seminars10 h Seminars
3C1626 Chemical Engineering, Laboratory Course	4	D	2	-	80	-			3		
3C1633 Chemical Reaction Engineering	6	D	16	24	-	34	1	2			
3C1651 Environmental Catalysis	4	D	30	-	-	-			3		6 h Seminars, 6 h Study visit6 h Seminars, 6 h Study visit
3C1654 Computational Project in Chemical Engineering	5	D	-	-	-	-				4	
3C1715 Transport Phenomena and Engineering Thermodynamics	7	C	28	40	-	12	1	2			6 h Seminars, 12 h Computer6 h Seminars, 12 h Computer
3C1723 Transport Phenomena, Advanced Course	5	D	18	12	-	-			3		6 h Seminars, 12 h Computer6 h Seminars, 12 h Computer
3C1781 Chemical Engineering in Fine and Specialty Chemicals	5	D	20	12	42	27	1				8h industry visit
3C1823 Applied Electrochemistry	5	D	32	16	-	15			3		
3C1941 Chemical Engineering, Design Course	10	D	40	120	-	-				4	
3C4350 Environmental Technology	5	C	-	-	-	-	1	2			

3D1058 Wood Chemistry and Wood Biotechnology	4	D	26	-	-	15			3		
3D1059 The Chemistry of Pulping and Bleaching	5	D	26	-	-	-		2			24 h Seminars24 h Seminars
3D1112 Fiber Technology	4	D	26	-	-	15				4	
3D1113 Paper Physics	4	D	20	-	-	20		2			
3D1114 Paper Processes Technology	4	D	20	-	-	20			3		
3D1115 Pulp and Paper Processes	6	D	40	-	-	48	1	2			
3D1164 Pulp Technology	4	D	24	-	-	-				4	24 h Seminars24 h Seminars
3E1141 Polymer Chemistry	5	D	18	18	-	45	1				
3E1200 Polymer Technology with Cellulose Technology	5	C	34	25	-	-				4	

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Industrial Ecology

Industrial Ecology TIEKM4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3C1335 Introduction Industrial Ecology	4	C	12	-	-	-	1				8 h Seminars, 12 h Projektuppgift8 h Seminars, 12 h Projektuppgift
Recommended Courses											
3C1381 Environmental Management II, Advanced Course	4	D	8	6	-	-				4	

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Master's Progr, Industrial Economics and Management

Master's Progr, Industrial Economics and Management TIEOM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4D1300 Managing Technology Based Organization	2	A	20	-	-	-		2			
4D1301 Genus & Management	4	C	40	-	-	-	1	2			10 h Seminars10 h Seminars
4D1303 Research Methodology	2	D	-	-	-	-				4	
4D1305 Management Control	4	B	28	-	-	-	1				4 h Seminars4 h Seminars
Conditionally Elective Courses											
4D1064 Management of Software Development Projects*	4	C	28	-	-	-			3		
4D1072 Industrial Project Management, Advanced Course	4	C	36	12	-	-			3		
4D1093 Psychology for Engineers	4	B	24	3	-	4		2			
4D1098 Organizational Change and Change Management*	4	C	-	8	-	-				4	36 h Seminars36 h Seminars
4D1152 Industrial Marketing, Advanced Course	4	C	36	-	-	-	1				12 h Seminars12 h Seminars
4D1164 Cost Management and Performance Measurement	4	C	34	-	-	-			3		4 h Seminars4 h Seminars
4D1174 Management and Analysis of Innovations and Technology	4	C	38	-	-	-		2			10 h Seminars10 h Seminars
4D1177 Digital Media Management	4	C	30	12	-	-				4	
4D1302 Management Control Frontiers	4	D	-	-	-	-				4	36 h Seminars36 h Seminars
4D1306 Art, Science and Skill	4	C	14	-	-	-		2			9 h Seminars9 h Seminars
4D1307 Management in Technology Intensive Organisations	4	D	28	-	-	-	1				4 h Seminars4 h Seminars
4D1308 Knowledge Management	4	D	18	12	-	-				4	12 h Seminars12 h Seminars
4D1310 Industrial Dynamics, Advanced Course	4	D	12	-	-	-				4	12 h Seminars12 h Seminars
4D1312 Management and Organizational Behavior*	4	D	-	-	-	-				4	14 h Seminars14 h Seminars
4D1313 Reflective Practice *New for 4D1309. New for 4D1309.*	4	D	10	-	-	-				4	20 h Seminars20 h Seminars
Elective Courses											
1F1536 Leadership	5	D	-	-	66	-	1				

1F1547 Project Law	5	D	-	-	66	-			3		
1F1560 Project Management	5	D	-	-	66	-		2			
1F1563 Construction Management	5	D	-	-	66	-			3		
4D1025 Economics and Law for Media	5	C	24	18	-	-		2			8 h Seminars8 h Seminars
4D1052 Intellectual Property Law	4	C	18	8	-	-				4	6 h SeminarsSeminars 6h 6 h Seminars
4D1057 Advanced Patent Law	4	C	4	14	-	-	1				14 h SeminarsSeminars 14h 14 h Seminars
4D1058 Intellectual Property Rights Management	4	C	14	14	-	-		2			
4D1064 Management of Software Development Projects*	4	C	28	-	-	-			3		
4D1076 Leadership in Cross-Cultural Context* *The course is maximized to 60 students.*	4	C	22	12	-	-		2			12 h Seminars12 h Seminars
4D1096 Human Resource Management	4	B	28	12	-	-			3		
4D1099 Managing Risks in Complex Technical Systems	4	C	-	-	-	-	1				20 h Seminars20 h Seminars
4D1154 Writing - A Method for Reflection*	4	C	4	-	-	-			3		20 h Seminars20 h Seminars
4D1167 Behavioral Finance	4	C	20	-	-	-				4	8 h Seminars8 h Seminars
4D1168 Industrial Dynamics	4	B	40	-	-	-	1				8 h Seminars8 h Seminars
4D1170 Advanced Production and Product Development	4	C	36	12	-	-		2			
4D1182 Konwledge Perspectives: Images of Organization*	4	D	28	-	-	-	1				
4D1311 Intercultural Understanding	4	D	28	-	-	-				4	4 h Seminars4 h Seminars
4D1703 The New Russian Economy* *Target group: Master students in Industrial Economy and Organization. The course begins in Feb and ends in Sep the following academic year.* *Under bearbetning*	4	C	10	-	-	-			3		20 h Projektuppgift20 h Projektuppgift

*The course has limited participation

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Production Engineering and Management

Production Engineering and Management TPEMM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4G1180 European Business Culture	5	C	30	60	-	-			3	4	
4G1181 Design and Process Modelling	5	C	30	60	-	-	1	2			
4G1182 Quality Control	6	D	30	60	-	-	1	2	3	4	
4G1183 Process Control and Management	6	D	30	60	-	-			3	4	
4G1184 Manufacturing Technology and Planning	6	D	30	60	-	-	1	2			
4G1185 Operations Management	6	C	30	60	-	-	1	2	3	4	
4G1186 Design and Information Management	6	D	30	60	-	-	1	2	3	4	

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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											
2I1501 Introduction to Information Security and its Environment *The course cannot be included in an exam together with any of the courses 2I1030, 2I1273, 2I1278, 2I4075.* *Under bearbetning*	10	D	22	-	-	16	1				Seminars 10 h
2I1502 Introduction to Cryptography *Under bearbetning*	5	D	28	-	-	12		2			
2I1503 Network Security *Replaces 2I1274 from 04/05* *Under bearbetning*	5	D	18	-	-	18		2			
2I1504 Software Engineering and Security Architecture *Under bearbetning*	5	D	18	-	-	18			3		
2I1505 Legal Aspects of Information Security *Under bearbetning*	5	D	24	-	-	12			3		
2I1506 Security Management *Cannot be included in an exam together with course 2I1050* *Under bearbetning*	10	D	24	-	-	6				4	Seminars 18 hours
Conditionally Elective Courses											
2G1516 Formal Methods	5	D	24	20	-	12		2			
Elective Courses											
2A1170 Chaos and Self-organization	4	D	32	17	-	-	1				
2D1441 Seminars on Theoretical Computer Science *The course is given every second year and will not be given in 05/06.*	4	D	30	-	-	-					
2G1517 Advanced Formal Methods	5	D	12	-	-	-				4	Seminars 6 hours
2G1701 Advanced Internetworking *The course is given in Kista.*	6	D	8	18	-	20	1				Group project, additiona lectures online
2G1704 Internet Security and Privacy	5	D	30	10	-	-		2			assigned paper
2I1272 Security Architecture for Open Distributed Systems *Under bearbetning*	4	D	24	-	-	-				4	Research Assignment 24h, Extra Reading Materials 36h
2I1276 Security for Java Environment and Electronic Commerce *Under bearbetning*	4	D	21	8	3	-			3		Extra Reading Materials 36h, Research Project 24h

2I1279 Security in Mobile and Wireless Networks *Under bearbetning*	4	D	24	-	-	10			3		
2I1401 Research Methodology and Scientific Writing	2	D	15	-	-	-	1				
2I1511 Value Based Risk Management *Under bearbetning*	5	D	12	12	-	-	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 *Under bearbetning*	20	D	-	-	-	-	1	2	3	4	
Elective Courses											
2I1259 Value-Based Software Engineering *Under bearbetning*	5	D	28	-	-	-				4	Seminar 14 h

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Master's Progr, Information technology with Specialisation in Entrepreneurship

Master's Progr, Information technology with Specialisation in Entrepreneurship TITEM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2G1731 ICT Venture Creation	10	C	-	-	52	-	1				Seminars 13 x 2, Period 1 and 2
2G1732 Business Opportunities in ICT	5	C	-	-	-	-	1				
2G1733 Global Entrepreneurial Leadership	5	D	-	-	-	-		2			
2G1741 ICT System Design *Under bearbetning*	20	D	-	-	-	-			3	4	

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Economics of Innovation and Growth

Economics of Innovation and Growth TEIGM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
1N1701 Microeconomics	5	C	25	25	-	-	1				Optional lectures in mathematics 10h
1N1702 Econometrics	5	C	25	25	-	15	1				Optional lectures in mathematics 10h
1N1703 Macroeconomics	5	C	30	10	-	-		2			Tutoring 6h
1N1704 Industrial Dynamics	5	D	30	20	-	-		2			
1N1705 Financial Economics	5	D	30	20	10	-			3		
1N1706 Economic Geography	5	D	30	10	-	-			3		
1N1707 International Economics	5	D	30	10	10	-				4	
1N1708 Public Economics	5	C	30	10	-	-				4	

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Internetworking

Internetworking TINTM1

*The students must choose one of the courses 2G1711,2G1712 or 2G1713 as compulsory

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2G1701 Advanced Internetworking *The course is given in Kista.*	6	D	8	18	-	20	1				Group project, additiona lectures online
2G1703 Inter Domain Routing *Under bearbetning*	5	D	10	-	-	20		2			Home assignment
Conditionally Elective Courses											
2E1632 Management of Networks and Networked Systems *The course replaces 2G1332.*	5	D	18	-	-	-				4	Project
2G1325 Practical Voice Over IP (VoIP)	5	D	10	-	-	-				4	Assigned paper 50h
2G1330 Wireless and Mobile Network Architectures	5	D	10	-	-	-			3		Assigned paper 50h
2G1704 Internet Security and Privacy	5	D	30	10	-	-		2			assigned paper
2G1711 Communication System Design *Under bearbetning*	12	D	-	-	-	-			3	4	project
2G1712 Communication System Design *Under bearbetning*	16	D	-	-	-	-			3	4	Project
2G1713 Communication System Design *Under bearbetning*	20	D	-	-	-	-			3	4	Project
2G1720 Global Entrepreneurial Leadership	5	D	-	-	-	-		2			
2G1721 Global IT Management	5	D	20	-	-	-			3		Seminars 10 h, Team project 10 h
2G1722 Developing Mobile Applications	5	D	20	-	-	10	1				
2G1723 GSM Network and Services	5	D	24	-	-	-				4	Laboratory 5 sessions
2G1725 Management of IT-enabled Change	5	D	20	-	-	-	1				Seminars 10 h, Team project 10 h

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Chemical Engineering

Chemical Engineering TKETM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3C1422 Industrial Energy Processes	5	D	20	20	-	-	1	2			
3C1524 Chemical Engineering	6	D	16	18	-	12				4	
3C1633 Chemical Reaction Engineering	6	D	16	24	-	34	1	2			
3C1723 Transport Phenomena, Advanced Course	5	D	18	12	-	-			3		6 h Seminars, 12 h Computer6 h Seminars, 12 h Computer
3C1781 Chemical Engineering in Fine and Specialty Chemicals	5	D	20	12	42	27	1				8h industry visit
Recommended Courses											
2D1225 Numerical Solutions of Differential Equations	4	C	24	4	-	16	1	2			
2D1263 Program Construction for Scientific Computing	4	C	24	-	-	12			3	4	
2D1320 Applied Computer Science	4	A	28	14	-	20	1	2			
2E1200 Automatic Control, General Course	4	C	24	26	-	12	1				
2E1291 Chemical Process Control	4	C	20	28	-	8			3		
3B1102 Analytical Chemistry	4	C	16	-	-	16			3		
3B1211 Quantum Chemistry and Spectroscopy	6	D	48	-	-	8	1				
3B1242 Technical Surface Colloid Chemistry	4	C	32	6	-	12			3		
3B1443 Atmosphere, Aquatic and Terrestrial Chemistry	5	C	12	10	-	24				4	
3B1511 Organic Chemistry, Advanced Course 1	9	C	12	6	54	-	1			4	
3B1521 Organic Chemistry, Theory, Advanced Course 1	5	C	12	6	-	-				4	
3B1650 Molecular Simulations Using a Computer	5	D	14	10	-	40			3		
3B1700 Introductory Chemistry	4	A	24	18	-	22	1				
3B1711 Chemical Equilibria	4	B	12	22	-	25			3	4	
3B1725 Chemical Thermodynamics	4	B	28	30	-	-	1				
3B1730 Molecular Structure	5	B	36	22	-	20		2	3		
3B1740 Chemical Dynamics	4	B	20	20	-	15			3		
3B1750 Organic Chemistry 1	5	B	20	14	-	42		2			

3B1760 Organic Chemistry 2	5	B	14	10	-	42				4	6 h Computer6 h Computer
3B1770 Chemical Measuring Techniques	5	B	22	4	-	12	1				
3B1781 Inorganic Chemistry	4	D	20	6	-	16				4	
3C1345 Environmental Technology and Environmental Impact Studies	4	D	32	4	-	-			3		8 h Projektuppgift8 h Projektuppgift
3C1347 Env. Technology and Env. Impact Studies, Larger Course	8	D	32	16	-	24			3	4	
3C1422 Industrial Energy Processes	5	D	20	20	-	-	1	2			
3C1451 Introduction to Chemical Engineering	7	B	39	26	-	-		2	3		Plant Trip 1 day
3C1524 Chemical Engineering	6	D	16	18	-	12				4	
3C1616 Reaction and Separation Engineering	7	C	-	-	-	12		2	3		8 h Seminars, 10 h Computer, 8 h Study visit8 h Seminars, 10 h Computer, 8 h Study visit
3C1621 Process Chemistry	5	D	36	72	-	-			3		10 h Seminars10 h Seminars
3C1626 Chemical Engineering, Laboratory Course	4	D	2	-	80	-			3		
3C1633 Chemical Reaction Engineering	6	D	16	24	-	34	1	2			
3C1651 Environmental Catalysis	4	D	30	-	-	-			3		6 h Seminars, 6 h Study visit6 h Seminars, 6 h Study visit
3C1654 Computational Project in Chemical Engineering	5	D	-	-	-	-				4	
3C1715 Transport Phenomena and Engineering Thermodynamics	7	C	28	40	-	12	1	2			6 h Seminars, 12 h Computer6 h Seminars, 12 h Computer
3C1723 Transport Phenomena, Advanced Course	5	D	18	12	-	-			3		6 h Seminars, 12 h Computer6 h Seminars, 12 h Computer
3C1781 Chemical Engineering in Fine and Specialty Chemicals	5	D	20	12	42	27	1				8h industry visit
3C1823 Applied Electrochemistry	5	D	32	16	-	15			3		
3C1941 Chemical Engineering, Design Course	10	D	40	120	-	-				4	
3D1058 Wood Chemistry and Wood Biotechnology	4	D	26	-	-	15			3		
3D1059 The Chemistry of Pulping and Bleaching	5	D	26	-	-	-		2			24 h Seminars24 h Seminars
3D1112 Fiber Technology	4	D	26	-	-	15				4	
3D1113 Paper Physics	4	D	20	-	-	20		2			
3D1114 Paper Processes Technology	4	D	20	-	-	20			3		
3D1115 Pulp and Paper Processes	6	D	40	-	-	48	1	2			
3D1164 Pulp Technology	4	D	24	-	-	-				4	24 h Seminars24 h Seminars
3E1120 Mechanical Properties of Materials	5	C	30	15	-	12				4	
3E1200 Polymer Technology with Cellulose Technology	5	C	34	25	-	-				4	
4A1140 Energy Systems and Models I *This course is not given the academic year 05/06.*	4	D	14	32	-	-					9 h SeminarsSeminars 9 H 9 h Seminars
4A1610 Energy Management	4	D	50	-	-	-		2	3		
4A1611 Renewable Energy Technology	4	D	-	-	52	-	1				Study visit 8h
4A1613 Energy and Environment *Examinator: Björn Palm, Tel 790 7453*	4	D	50	-	-	-			3	4	Study visit 6h

4F1430 Combustion Engines, general course*	4	C	42	6	-	12	1				
4F1431 Combustion Engines, Advanced Course*	6	D	48	-	-	28		2	3		
5B1301 Mathematics, Advanced Course, Partial Differential Equations	4	C	-	-	42	-			3		
5B1304 Mathematics, Extended Course	5	C	-	-	54	-			3	4	
5C1212 Computational Fluid Dynamics	5	D	-	-	50	10			3		

*The course has limited participation

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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	
1N1312 Economics*	3	A	16	18	-	-	1	2			2 h Workshop2 h Workshop
1N1313 Real Estate Investment Analysis*	3	C	-	-	36	-	1	2			
1N1413 Urban Land Management*	5	C	22	52	-	-	1		3		
1N1414 Comparative Law*	3	A	50	-	-	-	1				
1N1415 Real Estate Law*	5	C	31	34	-	-		2			
1N1416 Real Estate Planning and Development, Basic Course*	5	C	28	33	-	-		2			
1N1417 Land Information Systems*	6	D	32	56	-	-			3		
1N1418 Real Estate Planning and Development, Continuation Course*	5	D	34	42	-	-				4	

*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 Flow Acoustics	4	D	-	36	-	8			3		
4B1160 Introduction to noise control *The course is open only to students of the TLJVM programme* *Under bearbetning*	2	C	-	-	12	-	1				
4B1162 Vibro-Acoustics	7	D	-	-	64	8	1	2			
4B1164 Signal Analysis	5	D	-	-	26	22	1	2			
4B1166 Acoustical Measurements	5	D	-	-	16	20	1	2			
4B1168 Energy Methods	4	D	-	-	28	-				4	
Elective Courses											
2F1213 Musical Communication and Music Technology	5	D	28	8	-	12				4	Project assignment 30h
4B1131 Experimental Structure Dynamics	5	D	-	58	-	12		2	3		
4B1170 Numerical Methods for Acoustics and Vibration	4	D	-	-	24	-			3		
4B1172 Non-Linear Acoustics	4	D	-	-	24	-			3		
4B1174 Ultrasonics	4	D	-	-	24	-				4	
4B1176 Vehicle Acoustics and Vibration	4	D	-	-	24	-				4	
4B1425 Ground Vehicle Dynamics, Basic Course* *Under bearbetning*	7	D	33	60	-	-			3	4	
5C1218 Turbulence *Replaces 5C1992.*	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 *Under bearbetning*	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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Pharmaceutical Engineering

Pharmaceutical Engineering TLÄKM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3C1784 Pharmaceutical Technology *Lectures are given in Stockholm (KTH) and laboratory work in Uppsala (Biomedical centre).*	5	D	32	10	-	25			3		
3C1786 Pharmaceutical Bioscience	4	C	28	-	-	4			3		
Conditionally Elective Courses											
3A1115 Biochemistry	4	C	34	-	-	-				4	
3A1506 Drug Development	4	C	36	-	-	-			3		8 h Study visit8 h Study visit
3B1242 Technical Surface Colloid Chemistry	4	C	32	6	-	12			3		
3B1511 Organic Chemistry, Advanced Course 1	9	C	12	6	54	-	1			4	
3C1781 Chemical Engineering in Fine and Specialty Chemicals	5	D	20	12	42	27	1				8h industry visit
Recommended Courses											
2D1396 Bioinformatics	4	D	32	-	-	16			3		
2E1200 Automatic Control, General Course	4	C	24	26	-	12	1				
2E1291 Chemical Process Control	4	C	20	28	-	8			3		
3A1110 Molecular Enzymology	5	D	24	6	-	10		2			4 h Seminars4 h Seminars
3A1111 Enzymatic Synthesis	5	D	20	12	-	20				4	6 h Seminars6 h Seminars
3A1116 Biochemistry, Laboratory Course	4	C	-	-	-	96	1	2			
3A1305 Microbiology, General Course	6	C	36	16	-	54			3	4	
3A1503 Molecular Biotechnology	5	C	36	-	-	15		2	3		
3A1504 Structure Biology	4	C	32	-	-	20				4	
3B1102 Analytical Chemistry	4	C	16	-	-	16			3		
3B1121 Organic and Biochemical Analytical Separations	5	D	28	20	-	36				4	
3B1211 Quantum Chemistry and Spectroscopy	6	D	48	-	-	8	1				
3B1242 Technical Surface Colloid Chemistry	4	C	32	6	-	12			3		
3B1301 Nuclear Chemistry	5	C	30	-	-	20		2			
3B1321 Radical Chemistry	5	C	30	-	-	-			3		

3B1482 Structural Chemistry	5	D	16	6	-	16	1				
3B1511 Organic Chemistry, Advanced Course 1	9	C	12	6	54	-	1			4	
3B1521 Organic Chemistry, Theory, Advanced Course 1	5	C	12	6	-	-				4	
3B1531 Organic Chemistry, Advanced Course	4	D	-	-	-	54	1				
3B1542 Organic Chemistry, Advanced Course II	5	D	24	-	-	40			3		
3B1650 Molecular Simulations Using a Computer	5	D	14	10	-	40			3		
3B1700 Introductory Chemistry	4	A	24	18	-	22	1				
3B1711 Chemical Equilibria	4	B	12	22	-	25			3	4	
3B1725 Chemical Thermodynamics	4	B	28	30	-	-	1				
3B1730 Molecular Structure	5	B	36	22	-	20		2	3		
3B1740 Chemical Dynamics	4	B	20	20	-	15			3		
3B1750 Organic Chemistry 1	5	B	20	14	-	42		2			
3B1760 Organic Chemistry 2	5	B	14	10	-	42				4	6 h Computer6 h Computer
3B1770 Chemical Measuring Techniques	5	B	22	4	-	12	1				
3B1781 Inorganic Chemistry	4	D	20	6	-	16				4	
3C1451 Introduction to Chemical Engineering	7	B	39	26	-	-		2	3		Plant Trip 1 day
3C1616 Reaction and Separation Engineering	7	C	-	-	-	12		2	3		8 h Seminars, 10 h Computer, 8 h Study visit8 h Seminars, 10 h Computer, 8 h Study visit
3C1626 Chemical Engineering, Laboratory Course	4	D	2	-	80	-			3		
3C1633 Chemical Reaction Engineering	6	D	16	24	-	34	1	2			
3C1715 Transport Phenomena and Engineering Thermodynamics	7	C	28	40	-	12	1	2			6 h Seminars, 12 h Computer6 h Seminars, 12 h Computer
3C1723 Transport Phenomena, Advanced Course	5	D	18	12	-	-			3		6 h Seminars, 12 h Computer6 h Seminars, 12 h Computer
3C1823 Applied Electrochemistry	5	D	32	16	-	15			3		
3C1941 Chemical Engineering, Design Course	10	D	40	120	-	-				4	
3E1120 Mechanical Properties of Materials	5	C	30	15	-	12				4	
3E1141 Polymer Chemistry	5	D	18	18	-	45	1				
3E1200 Polymer Technology with Cellulose Technology	5	C	34	25	-	-				4	
4K1105 Manufacturing Systems and Automation *Under bearbetning*	4	C	14	24	-	12		2			
7E1101 Medical Engineering, Basic Course	4	C	24	-	-	-	1				
7E1110 Quality and Regulatory Aspects on Medical Devices	2	D	20	-	-	-			3	4	

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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 Project Assignment	4	D	-	160	-	-	1	2			
4M1343 Materials Processing, Project Support	4	D	72	48	-	40	1	2			
4M1346 Simulation and Modelling	4	D	10	80	-	-	1	2			
4M1347 Metal Forming	4	D	8	28	-	-	1	2			
4M1370 Solidification Processing	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 Compulsory Purchase and Compensation	5	D	32	32	-	-		2			
1F1430 Land Development	10	D	-	-	142	-	1	2			
1F1452 Law of Real Estate Formation	5	D	30	30	-	-	1				
1N1401 Applied Contract Law	5	A	20	35	-	-			3		Web-based study-support
1N1406 Law of Planning, Construction and Infrastructure	10	D	50	70	-	-			3	4	
1N1407 Land Management	5	D	-	-	-	-				4	Lectures/seminars 20h

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Material Chemistry

Material Chemistry TMATM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3E1120 Mechanical Properties of Materials	5	C	30	15	-	12				4	
Conditionally Elective Courses											
3B1456 Inorganic Materials Chemistry	5	D	20	6	-	15				4	
3D1058 Wood Chemistry and Wood Biotechnology	4	D	26	-	-	15			3		
3D1112 Fiber Technology	4	D	26	-	-	15				4	
3E1141 Polymer Chemistry	5	D	18	18	-	45	1				
3E1142 Polymer Physics	5	D	18	18	-	45			3		
Recommended Courses											
2B1263 Surface Physics, Basic Course	4	D	36	-	-	-		2			
2B1711 Solid State Physics *Under bearbetning*	4	D	30	18	-	12			3	4	
2B1760 Experimental Methods in Material Physics *Under bearbetning*	5	C	26	22	-	30		2	3		
3A1108 Biotechnology	4	B	36	-	-	-		2			
3B1102 Analytical Chemistry	4	C	16	-	-	16			3		
3B1242 Technical Surface Colloid Chemistry	4	C	32	6	-	12			3		
3B1456 Inorganic Materials Chemistry	5	D	20	6	-	15				4	
3B1482 Structural Chemistry	5	D	16	6	-	16	1				
3B1483 Nano-strucured Materials	5	D	16	6	-	16		2			
3B1511 Organic Chemistry, Advanced Course 1	9	C	12	6	54	-	1			4	
3B1711 Chemical Equilibria	4	B	12	22	-	25			3	4	
3B1725 Chemical Thermodynamics	4	B	28	30	-	-	1				
3B1730 Molecular Structure	5	B	36	22	-	20		2	3		
3B1740 Chemical Dynamics	4	B	20	20	-	15			3		
3B1750 Organic Chemistry 1	5	B	20	14	-	42		2			
3B1760 Organic Chemistry 2	5	B	14	10	-	42				4	6 h Computer6 h Computer
3B1770 Chemical Measuring Techniques	5	B	22	4	-	12	1				
3B1781 Inorganic Chemistry	4	D	20	6	-	16				4	

3C1616 Reaction and Separation Engineering	7	C	-	-	-	12		2	3		8 h Seminars, 10 h Computer, 8 h Study visit8 h Seminars, 10 h Computer, 8 h Study visit
3C1715 Transport Phenomena and Engineering Thermodynamics	7	C	28	40	-	12	1	2			6 h Seminars, 12 h Computer6 h Seminars, 12 h Computer
3D1058 Wood Chemistry and Wood Biotechnology	4	D	26	-	-	15			3		
3D1059 The Chemistry of Pulping and Bleaching	5	D	26	-	-	-		2			24 h Seminars24 h Seminars
3D1112 Fiber Technology	4	D	26	-	-	15				4	
3D1114 Paper Processes Technology	4	D	20	-	-	20			3		
3D1115 Pulp and Paper Processes	6	D	40	-	-	48	1	2			
3D1117 Paper Technology, project	4	D	-	-	-	-			3	4	Project work
3D1118 Paper Chemistry	4	D	26	15	-	-			3		
3D1164 Pulp Technology	4	D	24	-	-	-				4	24 h Seminars24 h Seminars
3E1120 Mechanical Properties of Materials	5	C	30	15	-	12				4	
3E1141 Polymer Chemistry	5	D	18	18	-	45	1				
3E1142 Polymer Physics	5	D	18	18	-	45			3		
3E1143 Surface Coatings Chemistry	5	D	30	-	-	28				4	
3E1144 Mechanical Properties and Testing of Polymers	5	D	30	12	-	12			3		
3E1145 Polymer Process Engineering I	5	D	30	10	-	28				4	
3E1146 Biopolymers	5	D	20	6	-	25			3		
3E1147 Polymeric Materials: Structure and Properties	5	D	18	18	-	45		2			
4H1504 Processing of Ceramic Materials *Under bearbetning*	4	C	12	-	-	18			3		
4H1609 Functional Materials	4	D	18	-	-	6		2			Study visit 8h
4H1610 Advanced Materials	4	C	18	-	-	6			3		Study visit 8h Seminars 18h
4H1703 Materials Chemistry	4	D	20	4	-	8				4	
4H1806 Materials Physics	4	B	40	20	-	15				4	

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Master's Progr, Medical Engineering

Master's Progr, Medical Engineering TMEDM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
6L2867 Clinical Engineering	5	C	-	-	-	-				4	
6L2870 Anatomy, Physiology and Pathology	10	A	-	-	-	-			3	4	
6L3701 Physics for Medical Engineers	5	B	-	-	-	-			3		

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Master's Progr, Medical Engineering

Master's Progr, Medical Engineering TMEDM4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
1N1126 Ethics and Technology in Institutional and Non-institution Care	5	C	32	-	-	-				4	

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Molecylar Design

Molecylar Design TMOLM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3A1115 Biochemistry	4	C	34	-	-	-				4	
3B1102 Analytical Chemistry	4	C	16	-	-	16			3		
3B1211 Quantum Chemistry and Spectroscopy	6	D	48	-	-	8	1				
3B1223 Molecular Thermodynamics	4	D	24	4	-	-			3		
3B1242 Technical Surface Colloid Chemistry	4	C	32	6	-	12			3		
3B1521 Organic Chemistry, Theory, Advanced Course 1	5	C	12	6	-	-				4	
3B1781 Inorganic Chemistry	4	D	20	6	-	16				4	
Recommended Courses											
3A1110 Molecular Enzymology	5	D	24	6	-	10		2			4 h Seminars4 h Seminars
3A1111 Enzymatic Synthesis	5	D	20	12	-	20				4	6 h Seminars6 h Seminars
3A1115 Biochemistry	4	C	34	-	-	-				4	
3B1102 Analytical Chemistry	4	C	16	-	-	16			3		
3B1211 Quantum Chemistry and Spectroscopy	6	D	48	-	-	8	1				
3B1223 Molecular Thermodynamics	4	D	24	4	-	-			3		
3B1231 NMR-spectroscopy	4	D	30	-	-	12		2			
3B1242 Technical Surface Colloid Chemistry	4	C	32	6	-	12			3		
3B1301 Nuclear Chemistry	5	C	30	-	-	20		2			
3B1312 Nuclear Fuel Cycle	4	D	16	-	-	6			3		Project
3B1321 Radical Chemistry	5	C	30	-	-	-			3		
3B1443 Atmosphere, Aquatic and Terrestrial Chemistry	5	C	12	10	-	24				4	
3B1451 Bio-inorganic Chemistry	5	D	20	6	-	15				4	
3B1456 Inorganic Materials Chemistry	5	D	20	6	-	15				4	
3B1482 Structural Chemistry	5	D	16	6	-	16	1				
3B1483 Nano-strucured Materials	5	D	16	6	-	16		2			
3B1511 Organic Chemistry, Advanced Course 1	9	C	12	6	54	-	1			4	

3B1521 Organic Chemistry, Theory, Advanced Course 1	5	C	12	6	-	-				4	
3B1542 Organic Chemistry, Advanced Course II	5	D	24	-	-	40			3		
3B1544 Applied Organic Molecular Spectroscopy	4	D	-	-	-	-	1				
3B1700 Introductory Chemistry	4	A	24	18	-	22	1				
3B1711 Chemical Equilibria	4	B	12	22	-	25			3	4	
3B1725 Chemical Thermodynamics	4	B	28	30	-	-	1				
3B1730 Molecular Structure	5	B	36	22	-	20		2	3		
3B1740 Chemical Dynamics	4	B	20	20	-	15			3		
3B1750 Organic Chemistry 1	5	B	20	14	-	42		2			
3B1760 Organic Chemistry 2	5	B	14	10	-	42				4	6 h Computer6 h Computer
3B1770 Chemical Measuring Techniques	5	B	22	4	-	12	1				
3B1781 Inorganic Chemistry	4	D	20	6	-	16				4	
3C1345 Environmental Technology and Environmental Impact Studies	4	D	32	4	-	-			3		8 h Projektuppgift8 h Projektuppgift
3C1784 Pharmaceutical Technology *Lectures are given in Stockholm (KTH) and laboratory work in Uppsala (Biomedical centre).*	5	D	32	10	-	25			3		
3D1058 Wood Chemistry and Wood Biotechnology	4	D	26	-	-	15			3		
3E1141 Polymer Chemistry	5	D	18	18	-	45	1				
3E1142 Polymer Physics	5	D	18	18	-	45			3		
3E1200 Polymer Technology with Cellulose Technology	5	C	34	25	-	-				4	
5A1354 Computational Physics *Under bearbetning*	6	D	30	-	-	20	1				
5A1490 Laser Chemistry *Under bearbetning*	4	D	24	-	-	12		2			
5A1491 Femtochemistry *Under bearbetning*	5	D	36	-	-	-			3		

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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 User Centered Program Development	6	D	26	-	-	22			3	4	
2D1620 Human-Computer Interaction, Introductory Course	4	C	20	10	-	2	1				
2D1622 Human-Computer Interaction, Advanced Course	4	C	18	5	-	8		2			
2D1631 Software Support for Prototyping	4	C	18	6	-	28	1	2			
Elective Courses											
2D1305 Computer Science Methods	4	D	26	6	-	30	1	2			
2D1400 Interactive Media for Computer Scientists *Probably not given 05/06.*	5	D	-	-	-	-	1				
2D1408 Evaluation Methods in Human-Computer Interaction*	4	D	10	14	-	-			3	4	
2D1413 Advanced Graphics and Interaction	6	D	46	-	-	12	1	2			
2D1416 Computer Support for Cooperative Work	6	D	30	-	-	15			3	4	
2D1418 Language Engineering	4	D	40	-	-	12	1				
2D1600 Communication in Engineering Sciences	5	A	8	30	-	10	1	2			
2D1625 IT-design for the Disabled	4	A	18	-	-	8				4	Seminars 8 h
2D1630 Methods in Behavioural Science	4	C	26	8	-	-	1				
2D1640 Graphics and Interaction Programming	6	C	36	14	-	42			3	4	
2D1650 Computer Game Design* *Limited number of participants.*	4	D	24	6	-	4		2			
2D1651 Computer Game Design with Advanced Graphics* *Limited number of participants.*	6	D	48	6	-	10	1	2			
2I1130 Cognitive Psychology *Under bearbetning*	4	B	30	12	-	-	1				
2I1703 Affective interaction *Under bearbetning*	4	D	18	-	-	-				4	project 120 hours
4D1208 History of Technology and Science	5	B	16	-	-	-			3		16 h Seminars16 h Seminars

*The course has limited participation

Previous academic year (04/05)

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Master's Progr, Nanoelectronics

Master's Progr, Nanoelectronics TNELM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2B1211 Physics of Electronic Materials	5	C	40	24	-	8	1				
2B1234 Nanoelectronics	6	D	30	10	-	8			3	4	
2B1263 Surface Physics, Basic Course	4	D	36	-	-	-		2			
Conditionally Elective Courses											
2B1140 Frontiers of Microelectronics and Information Technology *Offered twice a year, either fall or spring.*	4	D	20	-	-	-	1	2	3	4	
2B1242 Design and Characterisation of Nano- and Microdevices	5	D	24	-	-	16			3		
2B1248 Simulation of Semiconductor Devices	5	D	24	-	-	32		2			
2B1260 Semiconductor Theory and Device Physics, General Course	5	D	30	-	-	10	1				Individual assignments 20h
2B1261 Semiconductor Theory and Device Physics, Advanced Course *The course is not given 2005/06* *Under bearbetning*	4	D	-	36	-	-			3		
2B1700 Advanced Semiconductor Materials	5	D	34	-	-	16			3		
2B1715 Molecular Electronics *Under bearbetning*	5	D	30	8	-	-				4	
2B1750 Smart Electronic Materials *Under bearbetning*	4	C	18	10	-	8	1				
4H1711 Nanomaterials and Nanotechnology	4	D	20	-	12	-	1				
5A1378 Mesoscopic Physics	4	D	36	-	-	8		2			
5A1379 Spin Electronics *Under bearbetning*	4	D	24	-	-	4				4	

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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 Nanomaterials and Nanotechnology	4	D	20	-	12	-	1				
4H1712 Bio - Nanotechnology	4	D	20	8	-	8	1				
4H1713 Experimental techniques - surface *Under bearbetning*	4	D	36	-	-	8		2			
4H1714 Experimental Techniques - Bulk	4	D	20	-	-	20		2	3		
4H1715 Nanostructured materials; functional, bio- and self assembly	4	D	20	-	12	-		2	3		
4H1716 Nanosemiconductors *Under bearbetning*	4	D	26	-	-	8			3		
4H1717 Nano- and Microsystems	4	D	28	-	-	20				4	
Elective Courses											
4H1721 Microstructural Evolution	4	D	24	-	24	-	1				
4H1722 Solid State Physics	4	D	40	-	12	8	1				
4H1723 Materials Thermodynamics	4	D	20	-	-	-	1	2			
4H1724 Nanoscience and Biotechnology	4	D	36	-	-	10		2	3		
4H1725 Simulation and Modelling on the Atomic Scale	4	D	20	-	20	-			3		
4H1728 Advanced Materials Chemistry	4	D	20	-	4	8			3	4	
4H1729 Nano - Biotechnology	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											
2G1509 Distributed Systems, Basic Course	5	D	24	-	-	-	1				Project work 10 hours
2G1522 Modern Methods in Software Engineering	5	D	20	10	-	-	1				
2G1524 Distributed Artificial Intelligence and Intelligent Agents *The course is not elective if the student has already taken 2I1235*	5	D	24	10	-	-		2			
2G1529 Network Programming with Java *The course replaces 2G1118 The course is given in Kista in period 2*	5	D	22	10	-	10		2			
Conditionally Elective Courses											
2E1632 Management of Networks and Networked Systems *The course replaces 2G1332.*	5	D	18	-	-	-				4	Project
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		
2G1505 Theory of Automata	4	D	20	10	-	-				4	
2G1512 Computer Science II	6	C	30	30	-	12	1	2			+ individual work approximately 150h
2G1513 Distributed Systems, Advanced Course	5	D	24	-	-	-			3		
2G1515 Constraint Programming	5	D	24	-	-	-			3		Project work 10 hours
2G1516 Formal Methods	5	D	24	20	-	12		2			
2G1517 Advanced Formal Methods	5	D	12	-	-	-				4	Seminars 6 hours
2G1523 Programming Web-Services	5	D	20	10	-	-			3		
2G1526 Distributed Computing, Peer-to-Peer and GRIDS	5	D	-	-	12	-				4	Assignment presentations 1 h per group
2G1528 Individual Studies in Software Engineering *Under bearbetning*	5		-	-	-	-					
2G1530 Logic Programming *replaces 2G1121*	5	D	16	12	-	-	1				Individual work on project and group presentation 4h
2G1531 System Modelling and Simulation *This course is replaces 2G1503*	5	C	24	-	-	-	1				Projectwork 12 h

2G1915 Concurrent Programming *In period 3, the course is given in Kista*	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	A	-	-	-	-	1				
6S3727 Project Control	5	A	-	-	-	-		2			
6S3728 Project Analysis	5	A	-	-	-	-			3		
6S3729 Leadership for Operational Development	5	C	-	-	-	-			3		
6S3730 Practical Statistics	5	C	-	-	-	-	1				
6S3731 The Organisation and the Management System	5	C	-	-	-	-		2			
6S3798 Degr.Proj. in Proj. Manag. &Operational Development /Master *Under bearbetning*	10	D	-	-	-	-				4	

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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 *Under bearbetning*	5	D	34	28	-	-	1	2			
5A1332 Advanced Quantum Mechanics, Course I *Under bearbetning*	5	D	36	-	-	-	1	2			
5A1350 Statistical Mechanics *Under bearbetning*	4	C	24	24	-	-				4	
5A1456 Atomic and Molecular Physics	4	D	24	-	-	-	1				
Elective Courses											
5A1310 Elementary Particle Physics *Under bearbetning*	4	D	36	-	-	-				4	
5A1311 Theoretical Nuclear Physics *Under bearbetning*	4	D	30	-	-	-			3	4	
5A1312 Astroparticle Physics *Under bearbetning*	4	D	28	-	-	-			3		
5A1333 Advanced Quantum Mechanics, Course II *Given if there are enough interest. Please contact course administrator.* *Under bearbetning*	4	D	32	-	-	-			3		
5A1335 Symmetries in Physics *Under bearbetning*	4	D	30	-	-	-	1	2			
5A1354 Computational Physics *Under bearbetning*	6	D	30	-	-	20	1				
5A1356 Computational Physics, Additional Course *Under bearbetning*	3	D	-	-	-	-			3		
5A1356 Computational Physics, Additional Course *Under bearbetning*	3	D	-	-	-	-		2			
5A1370 Solid State Theory	4	D	36	-	-	-	1				
5A1378 Mesoscopic Physics	4	D	36	-	-	8		2			
5A1379 Spin Electronics *Under bearbetning*	4	D	24	-	-	4				4	
5A1381 Seminar Course in Theoretical Physics *Given if there are enough interest. Please contact course administrator.* *Under bearbetning*	4	D	4	16	-	-	1	2			

5A1405 Experimental Particle Physics *Under bearbetning*	4	D	26	-	-	4		2			
5A1410 Nuclear Physics *Under bearbetning*	4	D	24	-	-	25	1	2			
5A1414 Radiation Detectors and Medical Imaging Systems	5	D	24	-	-	15			3	4	6 h Seminars, 20 h Study visit6 h Seminars, 20 h Study visit
5A1416 Radiation Sources for Therapy	2	D	10	-	-	-				4	14 h Study visit14 h Study visit
5A1420 Experimental Techniques for Nuclear and Particle Physics *Given if there are enough interest. Please contact course administrator.* *Under bearbetning*	4	D	36	-	-	12		2			
5A1457 Atomic and Molecular Physics, Extended Course *The course can only be followed as an extension of 5A1456 Atomic-and Molecular Physics.*	2	D	4	-	-	20		2			
5A1490 Laser Chemistry *Under bearbetning*	4	D	24	-	-	12		2			
5A1491 Femtochemistry *Under bearbetning*	5	D	36	-	-	-			3		
5A1492 Femtophysics *Not given 05/06.* *Under bearbetning*	4	D	24	-	-	-					
5A1495 Molecular Physics *Under bearbetning*	5	D	34	10	-	-			3		
5A1502 Quantum Electronics with Electro Optics *Under bearbetning*	8	D	48	-	-	-		2			
5A1503 Electro Optics *Under bearbetning*	4	D	24	-	-	-		2			

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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 Investment Analysis	5	C	30	30	-	-	1				
1F1333 Real Estate Market Analysis and Development	5	D	30	30	-	-			3		
1F1339 Real Estate Finance and Economics	5	D	30	30	-	-				4	
1H1157 Urban and Regional Economics	5	D	-	-	66	-		2			
1N1303 Business Cycles in Construction and Real Estate Market	5	C	30	30	-	-	1				
1N1304 Research Methodology and Theory of Science	5	C	20	30	-	-		2			
1N1305 Financial Analysis	5	C	30	30	-	-			3		
Recommended Courses											
1F1331 Real Estate Valuation*	5	D	30	30	-	-				4	

*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 Applied Numerical Methods III	6	C	36	4	-	28	1	2			
2D1255 Numerical Solutions of Differential Equations	5	D	30	-	-	8			3	4	
2D1260 The Finite Element Method	4	C	18	14	-	12		2			
2D1263 Program Construction for Scientific Computing	4	C	24	-	-	12			3	4	
2D1266 Mathematical Models, Analysis and Simulation Part I	5	C	48	-	-	12	1	2			
Elective Courses											
2D1253 Numerical Algebra, Methods for Large Matrices	4	D	24	-	-	12		2			
2D1257 Visualization	4	C	16	-	-	14			3		
2D1269 Mathematical Models, Analysis and Simulation, part II	5	D	42	-	-	12			3	4	
2D1274 Computational Electromagnetics *Not on the central schedule.* *Not given 05/06*	5	D	24	-	-	12					
2D1285 Numerical Algorithms for Parallel Computers *The course will not be on the central schedule.* *Not given 05/06.*	4	D	16	-	-	4					
2D1290 Advanced Numerical Analysis *The course will not be on the central schedule.*	4	D	16	-	-	4				4	
2D1297 Advanced Individual Course in Scientific Computing *Course may start any time during the semester.*	4	D	-	-	-	-					
3A1640 Computational Chemistry	5	D	20	-	-	-		2			
5C1212 Computational Fluid Dynamics	5	D	-	-	50	10			3		
5C1213 Applied Computational Fluid Dynamics	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* *Please note that the course starts in August. Will not be on the central schedule.*	5	C	40	-	-	40	1				
Elective Courses											
2D1020 Master's 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 *The course will be replaced by 1N1509 Urban Planning, advanced course*	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 Introduction to Energy Technology	2	C	24	24	-	-	1				Study visits 4h
4A1605 Sustainable Power Generation	6	D	30	48	-	18	1	2			
4A1607 Sustainable Energy Utilisation	6	D	-	-	72	16	1	2			
4A1609 Applied Energy Technology - Project Course	6	D	12	-	-	-			3	4	Project 78h
4A1610 Energy Management	4	D	50	-	-	-		2	3		
4A1611 Renewable Energy Technology	4	D	-	-	52	-	1				Study visit 8h
4A1613 Energy and Environment *Examinator: Björn Palm, Tel 790 7453*	4	D	50	-	-	-			3	4	Study visit 6h
Conditionally Elective Courses											
4A1612 Renewable Energy Technology, Advanced Course *4A1612 is to be studied together with 4A1626.*	4	D	26	-	-	-			3		Study visit 4 h
4A1622 Thermal Comfort and Indoor Climate *4A1622 is to be combined with 4A1623*	4	D	54	-	-	-			3	4	Study visits 6h
4A1623 Applied Refrigeration and Heat Pump Technology *4A1623 is to be studied together with 4A1622.*	4	D	24	24	-	16			3	4	
4A1626 Applied Heat and Power Technology *4A1626 is to be combined with either 4A1627 or 4A1612.*	4	D	36	12	-	8			3	4	Project assignment 8h
4A1627 Applied Reactor Technology and Nuclear Power Safety *4A1627 is to be combined with 4A1626.*	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 ASIC-design Methodology with High-level Languages	5	D	20	4	-	16				4	Project 12 hours
2B1446 Embedded Systems *The course replaces 2B1445 The course is given in Kista*	5	C	24	6	-	16	1				
2B1448 System-On-Chip Architectures *The course replaces 2B1447 The course is given in Kista*	5	D	24	6	-	12		2			
2B1480 Submicron Digital Circuits Design	5	D	24	8	-	16		2			The course is given in Kista
2B1513 Digital Design with HDL	5	D	20	4	-	40	1				
Conditionally Elective Courses											
2B1428 Design of Digital Integrated Circuits - VLSI	5	D	21	8	-	16			3	4	
2B1429 System Modelling	5	D	24	-	-	-			3		Exercises 12
2B1435 DSP-Construction with HDL	5	D	24	12	-	24			3		
2B1450 Electronic System Packaging *Under bearbetning*	5	D	20	-	-	16			3		
2B1454 Design of Fault-tolerant Systems	5	D	-	-	-	-				4	
2B1455 Anatomy of EDA CAD-tools	5	D	24	6	-	-			3		
2B1458 Special Topics on SoC *Under bearbetning*	5	D	32	16	-	-				4	
2B1463 Embedded Software *The course is given in Kista*	5	D	20	6	-	12			3		
2B1515 Analog Electronics, Advanced Course	5	C	30	14	-	20			3		Project work
2B1600 Radio Electronics	5	D	26	12	-	16				4	
2B1611 Low Power Analog and Mixed Signal IC's	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											
2I1029 Human-Computer Interaction *Under bearbetning*	4	B	27	-	-	-	1				Seminar 6 h,Prodject 80 h
2I1703 Affective interaction *Under bearbetning*	4	D	18	-	-	-				4	project 120 hours
2I1705 Artificial Intelligence: Principles and Techniques *Under bearbetning*	4	C	-	-	-	-	1				
2I1706 Programming of Interactive Systems *Under bearbetning*	4	D	26	-	6	50	1	2			
2I1707 Cognitive and Social Science in HMI *Under bearbetning*	4	D	20	-	6	-		2			
2I1708 Microsimulation *Teachers are Magnus Boman and Jesper Holmberg, with guest lecturers Kalle Mäkilä and Lisa Brouwers (preliminary).* *Under bearbetning*	4	D	16	-	1	6			3		Total 40 h guidancetime in cumputerhall
2I1709 Collaborative computing *Under bearbetning*	4	D	20	-	-	30			3		
2I1710 Ubiquitous Computing *Replaces course 2I1237 start in P3, end in P4* *Under bearbetning*	4	D	29	-	50	-			3	4	tutorials 6 h, seminars 5 h
2I1713 Methodology for Interaction Design *Under bearbetning*	4	C	30	-	-	40		2			
Elective Courses											
2I1234 Machine Learning *Under bearbetning*	4	D	36	-	-	-				4	
2I1235 Agent Programming *The course are not electiv if students already had read 2G1524* *Under bearbetning*	4	D	18	-	-	3			3	4	Other 80 hours
2I1704 Advanced, Individual Course in Human-Computer Interaction *The course can be studied any time during the academic year.* *Under bearbetning*	4	D	-	-	-	-	1	2	3	4	
2I1711 Principles of Visualization *Under bearbetning*	4	D	15	-	-	-				4	Seminarier/Seminars 12 h Lab/Laboratory work ca 136 h

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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											
2I1228 Enterprise Computing and ERP Systems	5	D	14	12	-	60	1				80h
2I1401 Research Methodology and Scientific Writing	2	D	15	-	-	-	1				
6B3403 Project Management for IT Systems *Under bearbetning*	10	D	-	-	-	-	1	2	3	4	
Conditionally Elective Courses											
2C1520 Requirements Engineering	5	D	22	6	-	-				4	
2E1632 Management of Networks and Networked Systems *The course replaces 2G1332.*	5	D	18	-	-	-				4	Project
2G1721 Global IT Management	5	D	20	-	-	-			3		Seminars 10 h, Team project 10 h
2G1725 Management of IT-enabled Change	5	D	20	-	-	-	1				Seminars 10 h, Team project 10 h
2G1726 Strategic Management of IT	5	D	20	-	-	-				4	Seminars 10h, Team project 10h
2I1040 Knowledge and Software Reuse *Under bearbetning*	4	C	18	18	-	40			3	4	
2I1041 Software Evolution and Maintenance *This course is a part-time course (75%), meaning that you accomplish 4 credits within 6 weeks.* *Under bearbetning*	4	C	21	16	-	9	1				group councelling 1h
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
2I1068 Internet Search and Monitoring Techniques *The course replaces 2I1413*	5	C	-	-	16	-		2			6 assignments
2I1224 Data Warehousing *Under bearbetning*	4	D	15	10	-	30				4	
2I1229 Knowledge Management	4	D	28	-	-	18			3		70h
2I1242 Models and Languages for Object, Relational and Web Databases	5	D	20	40	-	75			3	4	Studying/Practice 60h
2I1259 Value-Based Software Engineering *Under bearbetning*	5	D	28	-	-	-				4	Seminar 14 h

2I1273 Principles of Computer Security *The course cannot be included in an exam that already includes one of the courses 2I1030, 2I1501, 2I1502, 2I1278, 2I4075.* *Under bearbetning*	4	D	24	-	-	12	1				Seminar paper 24 hours
2I1403 Processes for IT Production *The course has change name and number. From 2I1402 to 2I1403 and from Processes for IT Project Management to Processes for IT Production The course has change name and number. From 2I1402 to 2I1403 and from Processes for IT Project Management to Processes for IT Production* *Under bearbetning*	4	D	24	-	-	-		2			9h
2I1404 Model-driven Development of Components	5	D	20	35	-	110				4	
2I1406 Mobile Business *Under bearbetning*	5	D	18	12	-	-			3	4	Project work 80 h
2I1408 Projects and Powergames	4	D	24	-	-	-				4	Seminars 15 hours
2I1410 Current Problems in Information Systems	5	D	-	-	-	-	1	2	3	4	Individual studies
6B3401 Marketing Management and Information Technology *Under bearbetning*	5	C	-	-	-	-			3		
6B3402 Economy and Leadership for Project & Functional Management *Under bearbetning*	4	D	-	-	-	-		2			
Elective Courses											
2I1160 Introduction to ICT for Development *Under bearbetning*	5	C	-	-	-	-		2			

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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											
2I1020 Master's Project in Computer and Systems Sciences *Under bearbetning*	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	18	-	-	-	1				Seminars 8h
1H1603 Technology and Ethics	5	C	18	-	-	-			3		Seminars 8h
1H1604 Philosophy of Risk	5	C	20	-	-	-		2			10h seminars
1N1106 Philosophy of Science	5	D	20	-	-	10	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	20	-	-	-	1	2			Seminars 10h, 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	5	D	-	-	-	-					Non-scheduled
1N1116 Political Philosophy	5	C	14	-	-	-		2			Seminars 16h
1N1117 Decision Theory	5	C	16	14	-	-	1				
1N1118 Gender, Philosophy and Technology	5	C	20	-	-	-			3		Seminars 10h
1N1119 Management Ethics	5	C	18	-	-	-	1				Seminars 10h
1N1120 Introduction to Research Ethics	2	C	10	-	-	-	1				
1N1121 Advanced Course in Research Ethics	3	D	-	-	-	-		2			Tutorials/Seminars
1N1122 Advanced Course in Ethics	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 Degree Project in Philosophy (Master)	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 Good and Bad Science	5	C	32	-	-	-			3	4	
1H1604 Philosophy of Risk	5	C	20	-	-	-		2			10h seminars
1N1106 Philosophy of Science	5	D	20	-	-	6			3		Seminars 4h
1N1106 Philosophy of Science	5	D	20	-	-	10	1				Seminars 4h
1N1109 Ethics of Biotechnology	5	C	20	-	-	-	1	2			Seminars 10h, individual essay-tutorials
1N1120 Introduction to Research Ethics	2	C	10	-	-	-	1				
1N1121 Advanced Course in Research Ethics	3	D	-	-	-	-		2			Tutorials/Seminars
1N1123 Philosophy of the Natural Sciences	5	C	20	-	-	10		2			Seminars 10h
Conditionally Elective Courses											
1H1601 Mathematics and Reality	5	C	20	10	-	-				4	
1N1107 Information Analysis	5	C	14	14	-	-				4	
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	5	D	-	-	-	-					Non-scheduled
1N1116 Political Philosophy	5	C	14	-	-	-		2			Seminars 16h
1N1117 Decision Theory	5	C	16	14	-	-	1				
1N1118 Gender, Philosophy and Technology	5	C	20	-	-	-			3		Seminars 10h
1N1122 Advanced Course in Ethics	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 Degree Project in Philosophy (Master)	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 Research Methodology and Scientific Writing *Under bearbetning*	3	C	20	-	-	-		2			
2I1613 Scientific communication and research methodology *Under bearbetning*	3		14	-	-	-		2			
Conditionally Elective Courses											
2I1282 Software Testing and Metrics *Under bearbetning*	5	D	40	-	120	-			3		
Elective Courses											
2B1120 Introductory Physics	4	B	-	-	-	-		2			
2B1350 Electromagnetism and Waves *Under bearbetning*	4	B	-	-	-	-			3		
2I1281 Agile Software Construction *Under bearbetning*	6	C	40	-	40	120				4	
2I1602 Logic and Discrete Mathematics I *Under bearbetning*	4	B	24	-	12	-				4	
2I1604 Project Management and Group Dynamics *Under bearbetning*	3	B	18	-	-	24	1				Seminars 15 hours
2I1605 Logic and Discrete Mathematics II *Under bearbetning*	3	B	33	9	-	-	1	2			
5B1118 Discrete Mathematics	5	A	-	-	-	-		2	3	4	
5B1140 Analytical Methods and Linear Algebra I, IT	8	A	60	-	60	-	1	2			
5B1141 Analytical Methods and Linear Algebra II, IT	8	B	60	-	60	-			3	4	
5B1506 Mathematical Statistics, Basic Course	6	A	36	48	-	-	1	2			
6B2016 Discreet Mathematics *Under bearbetning*	5	B	20	20	-	20	1				
6B2060 Mathematics for Programmers	5	C	-	-	-	-	1				
6B2120 Calculus	5	A	30	28	-	-	1				
6B2121 Electrical Principals	5	A	22	20	-	16	1			4	
6B2255 Production Engineering	5	B	40	-	-	30	1			4	
6B2271 Industrial Economics, Advanced Course I	4	C	8	32	-	8	1				

6B2325 Project Management *Under bearbetning*	4	A	-	-	-	-	1				
6B2359 Industrial Economics, Basic Course	5	A	-	-	-	-				4	
6B2906 Mathematics, Linear Algebra *Under bearbetning*	5	A	28	24	-	12			3		
6B2912 Industrial Economics *Under bearbetning*	4	A	16	16	-	8		2			
6B2912 Industrial Economics *Under bearbetning*	4	A	16	16	-	8			3		
6B2912 Industrial Economics *Under bearbetning*	4	A	16	16	-	8				4	

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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	
Compulsory Courses											
2G1022 Master's Project in Applied Information Technology	20	D	-	-	-	-	1	2	3	4	
Conditionally Elective Courses											
2I1021 Master's Project in Applied Information Technology *Under bearbetning*	20	D	-	-	-	-	1	2	3	4	
6B3400 Master's Project in Applied Information Technology *Under bearbetning*	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											
2I1027 Computer Science, Basic Course	6	B	32	80	24	-		2	3		
2I1028 Introduction to Software Engineering *Under bearbetning*	4	B	15	-	-	-			3		tutorials 6h, project work 120
2I1030 Introduction to Computer Security *Under bearbetning*	4	A	-	-	-	15			3		Other 100 hours
2I1603 Human ComputerBInteraction *Under bearbetning*	4	B	25	-	-	9	1				Seminas 6 hours
2I1607 Database Methodology	4	B	30	-	-	9				4	Project work, Seminars 7 hours
2I1608 Objektoriented System Development *Under bearbetning*	4	B	30	-	6	-				4	Project work 27 hours
2I1609 Web-design *Under bearbetning*	5	B	18	-	-	-				4	Project work 80-100 Hours
6B2025 Algorithms and Data Structures	5	B	30	-	-	40		2			
6B2408 Multimedia Programming *Under bearbetning*	4	B	14	12	-	10			3		
6B2907 Object Oriented Programming, General Course	5	A	38	-	-	22	1	2			
6B2934 Unix Basics *Under bearbetning*	5	A	6	28	-	36			3		
6B2940 Computer Networks	5	B	-	-	-	-		2			
6B3035 Object Oriented Programming using C# and .NET	5	B	16	8	-	46			3		

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Applied Information Technology

Computer Systems TTITM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Elective Courses											
2B1446 Embedded Systems *The course replaces 2B1445 The course is given in Kista*	5	C	24	6	-	16	1				
2B1463 Embedded Software *The course is given in Kista*	5	D	20	6	-	12			3		
2B1545 Digital Electronics *Given in Kista* *Under bearbetning*	5	B	26	18	-	16			3	4	
2G1114 Parallel Computer Systems	5	D	-	-	24	-		2			Individual project guidance: 2-5 h/ student. Home study time: 150 h
2G1508 Compilers and Virtual Machines	4	C	24	8	-	4		2			
2G1509 Distributed Systems, Basic Course	5	D	24	-	-	-	1				Project work 10 hours
2G1510 Computer Architecture Fundamentals, Intermediate Course *Under bearbetning*	5	C	14	12	-	4		2			Seminar 4h
2G1511 Computer Architecture	6	D	42	-	-	12			3	4	Individual project guidance: 2-5 h/ student Home study time: 180 h
2G1515 Constraint Programming	5	D	24	-	-	-			3		Project work 10 hours
2G1518 Computer Hardware Engineering	5	B	20	20	-	12	1	2			
2G1520 Operating Systems *Given at Campus Valhallavägen*	5	C	28	12	-	-				4	
2G1520 Operating Systems *Given in Kista*	5	C	28	10	-	-		2			
2G1523 Programming Web-Services	5	D	20	10	-	-			3		
2G1524 Distributed Artificial Intelligence and Intelligent Agents *The course is not elective if the student has already taken 2I1235*	5	D	24	10	-	-		2			
2G1529 Network Programming with Java *The course replaces 2G1118 The course is given in Campus Valhallavägen in period 4*	5	D	22	10	-	10				4	
2G1529 Network Programming with Java *The course replaces 2G1118 The course is given in Kista in period 2*	5	D	22	10	-	10		2			
2G1530 Logic Programming *replaces 2G1121*	5	D	16	12	-	-	1				Individual work on project and group presentation 4h

2G1915 Concurrent Programming *In period 1, the course is given at Campus Valhallavägen.*	5	C	36	-	-	24	1				
2G1915 Concurrent Programming *In period 3, the course is given in Kista*	5	C	36	-	-	24			3		
6B2123 Electronic Systems Project	4	C	-	-	-	-				4	
6B2910 Computer Technology	6	B	30	8	-	24				4	
6B2911 Digital Design	5	A	24	22	-	20		2			
6B2911 Digital Design	5	A	24	22	-	20			3		
6B3116 Real Time Systems	4	C	30	-	-	20			3		
6B3130 Embedded Systems	4	B	12	14	-	16			3		

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Study Handbook

Syllabus
Curriculum
Courses, by Department
TMS Courses
Abbreviations

Previous academic year (04/05)

Next academic year (06/07)

Applied Information Technology

Electronic Systems TTITM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Elective Courses											
2B1423 ASIC-design Methodology with High-level Languages	5	D	20	4	-	16				4	Project 12 hours
2B1428 Design of Digital Integrated Circuits - VLSI	5	D	21	8	-	16			3	4	
2B1429 System Modelling	5	D	24	-	-	-			3		Exercises 12
2B1430 Design of Digital Integrated Circuits - LSI	5	C	20	8	-	16				4	Project 16h The course is given in Campus. (Valhallavägen)
2B1446 Embedded Systems *The course replaces 2B1445 The course is given in Kista*	5	C	24	6	-	16	1				
2B1448 System-On-Chip Architectures *The course replaces 2B1447 The course is given in Kista*	5	D	24	6	-	12		2			
2B1455 Anatomy of EDA CAD-tools	5	D	24	6	-	-			3		
2B1513 Digital Design with HDL	5	D	20	4	-	40	1				
2B1515 Analog Electronics, Advanced Course	5	C	30	14	-	20			3		Project work
2B1545 Digital Electronics *Given in Kista* *Under bearbetning*	5	B	26	18	-	16			3	4	
2B1553 Analog Electronics	5	B	32	32	-	8		2			
2B1600 Radio Electronics	5	D	26	12	-	16				4	
2B1611 Low Power Analog and Mixed Signal IC's	5	D	-	14	42	-				4	
6B2118 Medical Electronic Design *Under bearbetning*	5	B	24	12	-	24			3		
6B2122 Analog Electronics	5	B	14	20	-	12	1				
6B2123 Electronic Systems Project	4	C	-	-	-	-				4	
6B2911 Digital Design	5	A	24	22	-	20		2			
6B2911 Digital Design	5	A	24	22	-	20			3		
6B3114 VHDL Design	5	C	16	14	-	24		2			
6B3115 High Frequency Electronics	5	C	12	20	-	16	1				
6B3130 Embedded Systems	4	B	12	14	-	16			3		
6B3291 Applied Automation Control	4	B	12	22	-	12		2			

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Applied Information Technology

Industrial IT Engineering TTITM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Elective Courses											
6B2249 Industrial IT, basic course	5	A	20	13	-	20				4	
6B2254 Design and Technology	11	B	-	-	78	48		2	3	4	
6B2261 Industrial IT, Intermediate Course	4	B	-	-	-	-	1				
6B2262 Industrial IT, Adanced Course	4	C	8	28	-	6	1	2			
6B2265 Project regarding Industrial IT *Under bearbetning*	6	C	-	-	-	-			3		
6B2349 Logistics	4	B	20	-	-	8		2			
6B3280 Computer Aided Design	4	A	-	-	6	26			3		

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Applied Information Technology

Information Systems TTITM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Elective Courses											
2I1040 Knowledge and Software Reuse *Under bearbetning*	4	C	18	18	-	40			3	4	
2I1041 Software Evolution and Maintenance *This course is a part-time course (75%), meaning that you accomplish 4 credits within 6 weeks.* *Under bearbetning*	4	C	21	16	-	9	1				group councelling 1h
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
2I1068 Internet Search and Monitoring Techniques *The course replaces 2I1413*	5	C	-	-	16	-		2			6 assignments
2I1224 Data Warehousing *Under bearbetning*	4	D	15	10	-	30				4	
2I1228 Enterprise Computing and ERP Systems	5	D	14	12	-	60	1				80h
2I1229 Knowledge Management	4	D	28	-	-	18			3		70h
2I1242 Models and Languages for Object, Relational and Web Databases	5	D	20	40	-	75			3	4	Studying/Practice 60h
2I1406 Mobile Business *Under bearbetning*	5	D	18	12	-	-			3	4	Project work 80 h
2I1408 Projects and Powergames	4	D	24	-	-	-				4	Seminars 15 hours

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Applied Information Technology

Interactive Systems TTITM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Elective Courses											
2I1042 Design and Construction of Interactive Systems *Under bearbetning*	5	C	-	-	-	-		2			
2I1095 Cognitive Science *Under bearbetning*	4	C	25	-	-	-			3		Course assignment work 120
2I1130 Cognitive Psychology *Under bearbetning*	4	B	30	12	-	-	1				
2I1140 Artificial Intelligence *Under bearbetning*	6	D	39	10	-	80			3		
2I1234 Machine Learning *Under bearbetning*	4	D	36	-	-	-				4	
2I1235 Agent Programming *The course are not electiv if students already had read 2G1524* *Under bearbetning*	4	D	18	-	-	3			3	4	Other 80 hours
2I1263 Internet Application Protocols and Standards *Under bearbetning*	4	A	24	-	-	20			3		120h
2I1703 Affective interaction *Under bearbetning*	4	D	18	-	-	-				4	project 120 hours
2I1710 Ubiquitous Computing *Replaces course 2I1237 start in P3, end in P4* *Under bearbetning*	4	D	29	-	50	-			3	4	tutorials 6 h, seminars 5 h

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Business IT Engineering TTITM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Elective Courses											
6B2313 IT-Business Systems, Project	6	C	22	-	-	-	1		3		
6B2315 Systems Planning and Security	4	B	24	8	-	-			3		
6B2352 Enterprise Systems, Selection and Usage	5	B	-	-	-	-				4	
6B2353 Enterprise Systems, Configuration and Modification	5	C	12	48	-	-				4	
6B2354 Enterprise Application Integration with ERP Systems	5	C	-	-	-	-	1				
6B2355 Financial Control and Reporting	5	C	24	20	-	8		2			
6B2356 Logistics, Fundamentals	5	B	20	-	-	8		2			
6B2357 Logistics, Advanced Course	5	C	20	-	-	-	1				

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Applied Information Technology

Management of Information Technology TTITM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Elective Courses											
2I1651 Management with IT I *Under bearbetning*	20	B	-	-	-	-	1	2			
2I1652 Management with IT II *Under bearbetning*	20	B	-	-	-	-			3	4	
2I1661 IT-Management I *Under bearbetning*	20	C	-	-	-	-			3	4	
2I1662 IT-Management II *Under bearbetning*	20	C	-	-	-	-	1	2			

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Applied Information Technology

Communication Systems TTITM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Elective Courses											
2B1322 Fiber Optical Communication	5	D	28	14	-	8			3		
2B1600 Radio Electronics	5	D	26	12	-	16				4	
2B1611 Low Power Analog and Mixed Signal IC's	5	D	-	14	42	-				4	
2B1821 Principles of Communications	4	D	24	12	-	-	1				
2E1618 Queuing Theory and Teletraffic Systems *The course replaces 2G1318.*	4	D	24	24	-	-		2			
2E1624 Performance Analysis of Communication Networks *The course replaces 2G1324.* *Under bearbetning*	5	D	-	-	24	-			3		30 h Projektuppgift30 h Projektuppgift
2E1632 Management of Networks and Networked Systems *The course replaces 2G1332.*	5	D	18	-	-	-				4	Project
2E1633 Network Services and Internet-based Applications* *The course replaces 2G1333.*	5	D	8	-	-	-				4	120 h Projektuppgift120 h Projektuppgift
2G1305 Internetworking *Given at Campus Valhallavägen*	4	C	20	18	-	10	1				Assignments
2G1316 Datacommunication and Computer Networks *Given in Kista*	4	A	-	-	-	-	1				
2G1319 Communication System Design *Also given as 2G1711, 12 credits; 2G1712, 16 credits and 2G1713, 20 credits*	10	D	-	-	-	-			3	4	Project work
2G1325 Practical Voice Over IP (VoIP)	5	D	10	-	-	-				4	Assigned paper 50h
2G1330 Wireless and Mobile Network Architectures	5	D	10	-	-	-			3		Assigned paper 50h
2G1720 Global Entrepreneurial Leadership	5	D	-	-	-	-		2			
2G1721 Global IT Management	5	D	20	-	-	-			3		Seminars 10 h, Team project 10 h
2G1722 Developing Mobile Applications	5	D	20	-	-	10	1				
2G1723 GSM Network and Services	5	D	24	-	-	-				4	Laboratory 5 sessions
2G1725 Management of IT-enabled Change	5	D	20	-	-	-	1				Seminars 10 h, Team project 10 h
6B2124 Telecommunication *Under bearbetning*	5	B	22	20	-	16			3		
6B3115 High Frequency Electronics	5	C	12	20	-	16	1				

6B3117 Wireless Systems	5	C	22	22	-	20		2			
6B3118 Systems and Networks	5	C	28	20	-	12	1				

*The course has limited participation

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Applied Information Technology

Mechatronics TTITM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Elective Courses											
6B2260 Product Development	4	B	12	48	44	-	1	2			
6B2264 IT Projecty regarding Mecatronics *Under bearbetning*	6	C	-	-	-	-			3		
6B2266 Programming of Embedded Systems *Under bearbetning*	4	C	-	-	-	-	1				
6B2267 Sensors and Actuators *Under bearbetning*	4	B	-	-	-	-		2			
6B3291 Applied Automation Control	4	B	12	22	-	12		2			

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Applied Information Technology

Microelectronics TTITM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Elective Courses											
2B1211 Physics of Electronic Materials	5	C	40	24	-	8	1				
2B1221 Methods and Instruments of Analysis	5	D	-	-	28	16		2			
2B1230 Power Semiconductor Devices	5	D	40	-	-	-			3		Project 40h
2B1245 Advanced VLSI-Devices	5	D	20	-	-	32				4	
2B1248 Simulation of Semiconductor Devices	5	D	24	-	-	32		2			
2B1252 Semiconductor Devices	6	C	32	10	-	12				4	
2B1430 Design of Digital Integrated Circuits - LSI	5	C	20	8	-	16				4	Project 16h The course is given in Campus. (Valhallavägen)
2B1515 Analog Electronics, Advanced Course	5	C	30	14	-	20			3		Project work
2B1553 Analog Electronics	5	B	32	32	-	8		2			
2B1700 Advanced Semiconductor Materials	5	D	34	-	-	16			3		

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Applied Information Technology

Software Engineering TTITM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Elective Courses											
2G1117 Semantics for Programming Languages	4	D	20	10	-	-			3		
2G1505 Theory of Automata	4	D	20	10	-	-				4	
2G1508 Compilers and Virtual Machines	4	C	24	8	-	4		2			
2G1509 Distributed Systems, Basic Course	5	D	24	-	-	-	1				Project work 10 hours
2G1516 Formal Methods	5	D	24	20	-	12		2			
2G1519 Programming Concepts and Techniques, Advanced Course	8	C	38	36	-	22	1	2	3		Individual work approx 200 hours
2G1520 Operating Systems *Given in Kista*	5	C	28	10	-	-		2			
2G1520 Operating Systems *Given at Campus Valhallavägen*	5	C	28	12	-	-				4	
2G1529 Network Programming with Java *The course replaces 2G1118 The course is given in Kista in period 2*	5	D	22	10	-	10		2			
2G1529 Network Programming with Java *The course replaces 2G1118 The course is given in Campus Valhallavägen in period 4*	5	D	22	10	-	10				4	
2G1530 Logic Programming *replaces 2G1121*	5	D	16	12	-	-	1				Individual work on project and group presentation 4h
2G1915 Concurrent Programming *In period 1, the course is given at Campus Valhallavägen.*	5	C	36	-	-	24	1				
2G1915 Concurrent Programming *In period 3, the course is given in Kista*	5	C	36	-	-	24			3		
2I1256 Current Problems in Software Engineering *Under bearbetning*	4	D	-	-	-	-	1	2	3	4	160h
2I1258 Large-Scale Software Engineering	5	C	21	-	-	-				4	laboration 120+60h
2I1403 Processes for IT Production *The course has change name and number. From 2I1402 to 2I1403 and from Processes for IT Project Management to Processes for IT Production The course has change name and number. From 2I1402 to 2I1403 and from Processes for IT Project Management to Processes for IT Production* *Under bearbetning*	4	D	24	-	-	-		2			9h
2I1801 Internet Programming I *Replaces 2I1264 from HT04.*	5	D	6	-	-	160	1				

2I1802 Internet Programming II *Replaces 2I1265 from HT04.*	5	D	6	-	-	160		2			
2I1803 Internet Programming III *Replaces 2I1266 from VT04*	5	D	6	-	-	160			3		
2I1901 Introduction to Software Engineering *Under bearbetning*	5	C	15	-	-	-			3		Seminars 6 hours, project 120 hours
2I1902 Advanced Issues in Object-Orientation	5	C	30	-	-	120		2			
2I1903 *Under bearbetning*	4	D	36	-	-	-			3		Seminars 3 h
6B2015 Internet Applications	5	B	24	-	-	46		2			
6B2017 Object Oriented Programming, Intermediate Course, JAVA	5	C	38	-	-	40				4	
6B2017 Object Oriented Programming, Intermediate Course, JAVA	5	C	38	-	-	40	1				
6B2018 Object Oriented Programming, Intermediate Course, C#	5	C	30	-	-	40	1				
6B2026 Object Oriented Design and UML	5	B	30	-	-	40			3		
6B2027 Project on Object Oriented Software Development	6	B	4	4	-	-			3	4	Project 100 h
6B2028 Internet Applications, Intermediate Course, Java	5	C	30	-	-	40				4	
6B2029 Internet Applications, Intermediate Course, .NET with C#	5	C	30	-	-	40				4	
6B2050 Data Storage Paradigms *No resources for content/schema adaptation.*	5	C	-	-	-	-	1				
6B2053 ICT Project *Under bearbetning*	8	C	-	-	-	-		2	3		Project work 280 h
6B2061 Design of Global Applications	4	C	-	-	-	-		2			
6B2065 Advanced Information Handling with XML *Strictly a Swedish spoken course*	4	C	-	-	-	-			3		
6B3113 Object-oriented Programming Advanced Course, C++	5	C	26	14	-	16	1				
6B3116 Real Time Systems	4	C	30	-	-	20			3		

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Uppdaterad: 2004-11-10

Previous academic year (04/05)

Next academic year (06/07)

Applied Information Technology

Security TTITM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Elective Courses											
2I1037 Network Security *Under bearbetning*	5	C	21	-	-	3			3	4	
2I1272 Security Architecture for Open Distributed Systems *Under bearbetning*	4	D	24	-	-	-				4	Research Assignment 24h, Extra Reading Materials 36h
2I1273 Principles of Computer Security *The course cannot be included in an exam that already includes one of the courses 2I1030, 2I1501, 2I1502, 2I1278, 2I4075.* *Under bearbetning*	4	D	24	-	-	12			3		Seminar paper 24 hours
2I1273 Principles of Computer Security *The course cannot be included in an exam that already includes one of the courses 2I1030, 2I1501, 2I1502, 2I1278, 2I4075.* *Under bearbetning*	4	D	24	-	-	12	1				Seminar paper 24 hours
2I1276 Security for Java Environment and Electronic Commerce *Under bearbetning*	4	D	21	8	3	-			3		Extra Reading Materials 36h, Research Project 24h
2I1501 Introduction to Information Security and its Environment *The course cannot be included in an exam together with any of the courses 2I1030, 2I1273, 2I1278, 2I4075.* *Under bearbetning*	10	D	22	-	-	16	1				Seminars 10 h
2I1502 Introduction to Cryptography *Under bearbetning*	5	D	28	-	-	12		2			
2I1503 Network Security *Replaces 2I1274 from 04/05* *Under bearbetning*	5	D	18	-	-	18		2			
2I1504 Software Engineering and Security Architecture *Under bearbetning*	5	D	18	-	-	18			3		
2I1505 Legal Aspects of Information Security *Under bearbetning*	5	D	24	-	-	12			3		
2I1506 Security Management *Cannot be included in an exam together with course 2I1050* *Under bearbetning*	10	D	24	-	-	6				4	Seminars 18 hours

Study Handbook

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Courses, by Department
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Abbreviations

Previous academic year (04/05)

Next academic year (06/07)

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	A	-	-	-	-	1				
6S3702 Purchasing and Supply Chains	5	A	-	-	-	-		2			
6S3706 Transportation System	5	C	-	-	-	-	1				
6S3707 Logistics, Intermediate Course	5	C	-	-	-	-		2			
Conditionally Elective Courses											
6S3703 Legislation Issues in Logistics	5	C	-	-	-	-			3		
6S3704 Leadership and Personal Development	5	A	-	-	-	-				4	
6S3799 Degree Project in Applied Logistics (Master)	10	D	-	-	-	-					

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Previous academic year (04/05)

Next academic year (06/07)

Wireless Systems

Wireless Systems TWSSM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2E1422 Introduction to Signal Theory *Under bearbetning*	3	C	18	10	-	-	1				
2E1432 Digital Communications	6	C	32	30	-	12	1	2			
2E1511 Radio Communication, Basic Course	4	D	24	24	-	8	1				
Elective Courses											
2B1600 Radio Electronics	5	D	26	12	-	16				4	
2E1340 Digital Signal Processing	5	D	26	24	-	3		2			
2E1350 Adaptive Signal Processing	4	D	24	14	-	-			3		
2E1367 Project Course in Signal Processing&Digital Communications	8	D	-	-	-	-				4	Project work 8 cr.
2E1381 Seminars in Wireless Systems *Under bearbetning*	2	D	-	-	-	-			3	4	Seminars 16h
2E1400 Speech Signal Processing *Replaces 2F1521.*	4	D	24	24	-	-		2			
2E1405 Image Processing	4	D	24	24	-	-				4	
2E1410 Information Theory and Source Coding, Accel Program Course	5	D	36	12	-	-			3		
2E1434 Detection and Modulation Theory, Accelerated Program	5	D	21	-	-	-		2			
2E1436 Advanced Digital Communications	4	D	26	26	-	-			3		
2E1438 Information Theory and Channel Coding, Accelerated Program	5	D	21	-	-	-				4	
2E1512 Wireless Networks*	8	D	30	24	-	12				4	80 h Projektuppgift80 h Projektuppgift
2E1514 Wireless Transmission Techniques	4	D	26	26	-	-			3		
2G1305 Internetworking *Given at Campus Valhallavägen*	4	C	20	18	-	10	1				Assignments
2G1319 Communication System Design *Also given as 2G1711, 12 credits; 2G1712, 16 credits and 2G1713, 20 credits*	10	D	-	-	-	-			3	4	Project work
2G1330 Wireless and Mobile Network Architectures	5	D	10	-	-	-			3		Assigned paper 50h
2H1260 Antenna Theory	5	D	26	24	-	18			3		

*The course has limited participation