

Study Handbook

Syllabus

Curriculum
Courses, by
Department

TMS Courses
Abbreviations

[Previous academic year \(02/03\)](#)
[Next academic year \(04/05\)](#)

Computer Networks

Computer Networks TDNVM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
6H3707 Network Security*_	5	C	-	-	-	-	1				
Conditionally Elective Courses											
6H3702 Communication Networks	5	C	-	-	-	-	1				
6H3703 The Internet protocols	5	C	-	-	-	-		2			
6H3705 Router Technology and Multi-service Networks I	5	C	-	-	-	-	1				
6H3706 Router Technology and Multi-service Networks II	5	C	-	-	-	-		2			
6H3708 Queuing Theory	5	C	-	-	-	-		2			
6H3709 Transform Methods	5	C	-	-	-	-		2			
6H3710 Network Management	5	D	-	-	-	-			3		
6H3711 Simulation of Computer Networks	5	C	-	-	-	-			3		
6H3712 Wireless Networks	5	D	-	-	-	-				4	
6H3713 Routing in IP Networks	5	D	-	-	-	-				4	
6H3715 Database Technology	5	C	-	-	-	-			3		
6H3716 Human Computer Interaction	5	C	-	-	-	-			3		
6H3718 Network Java Programming	5	D	-	-	-	-				4	
Under bearbetning											
6H3719 Webserver Programming	5	D	-	-	-	-				4	
Under bearbetning											

*The course has limited participation

Sidansvarig: Studiehandboksredaktionen, studiehandbok@kth.se

Uppdaterad: 2003-03-01

Study Handbook**Syllabus**

Curriculum
Courses, by
Department

TMS Courses**Abbreviations**[Previous academic year \(02/03\)](#)[Next academic year \(04/05\)](#)

Design and Building

Design and Building TDOBM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
1A1H30 Sketch and Form <i>Under bearbetning</i>	4	A	-	-	-	-	1				
1A1H31 Wide Span Buildings (Project) <i>Under bearbetning</i>	6	C	-	-	-	-		2			
1A1H32 Art and Science <i>Under bearbetning</i>	4	C	-	-	-	-	1				
1A1H40 Art Drawing and Modelling <i>Under bearbetning</i>	6	A	-	-	-	-		2			
6H3730 Construction and climate planning <i>Under bearbetning</i>	6	C	-	-	-	-		2			
Elective Courses											
1A1H41 Voluntary Croquis Drawing 1 <i>Under bearbetning</i>	1	A	-	-	-	-					
1A1H42 Voluntary Croquis Drawing <i>Under bearbetning</i>	1	B	-	-	-	-					

Sidansvarig: Studiehandboksredaktionen, studiehandbok@kth.se

Uppdaterad: 2003-03-01

Study Handbook**Syllabus**

**Curriculum
Courses, by
Department**

TMS Courses

Abbreviations

[Previous academic year \(02/03\)](#)
[Next academic year \(04/05\)](#)

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	-	-	-	-	1				
2C1241 Electrical Machines and Drives	5	D	28	20	-	12			3		
2C1242 Power Electronics	5	D	28	20	-	12	1				
Elective Courses											
2C1111 System Planning	4	D	60	-	-	-			3		
2C1113 Power Systems, Advanced Course	6	D	72	-	-	-				4	
2C1114 Wind Power Systems	4	C	58	-	-	-			3	4	
2C1132 High-voltage Engineering	5	C	20	-	-	8			3		Projects 50h
2C1148 Analysis of Electrical Machines	5	D	28	20	-	4				4	

Sidansvarig: Studiehandboksredaktionen, studiehandbok@kth.se

Uppdaterad: 2003-03-01

Studiehandboken

Utbildningsplaner

Kurser per program
(läro- och timplaner)Kurser per
institution

TMS-kurser

Beteckningar

Föregående läsår (02/03)

Nästa läsår (04/05)

Engineering Mechanics TEGMM1

Kod Namn	Poäng	Nivå	F	Ö	Le	Lab	Perioder				Övrigt	
							1	2	3	4		
Obligatoriska kurser												
4C1110 <u>Materialmekanik</u>	4	D	52	-	-	3	1				2 written assignments	
4C1130 <u>Tillämpad solidmekanik och finit elementmetod</u>	6	D	8	-	49	8		2	3		Projektarbete 30h i P3	
5C1214 <u>Strömningsmekanik</u> <i>Obligatorisk för M- och T-studenter som läser MEK:Strömningsmekanik.</i>	5	C	-	30	30	3	1					
Valfria kurser												
4C1111 <u>Brottmekanik och utmattning</u>	4	D	48	-	-	4				4	2 written assignments	
4C1120 <u>Experimentella metoder inom mekaniken</u>	4	D	20	-	-	20			3		Seminarier 4h	
5C1212 <u>Strömningsmekaniska beräkningar</u>	5	D	-	-	50	10			3			
5C1213 <u>Tillämpade strömningsmekaniska beräkningar</u>	2	D	-	-	10	14				4		
5C1215 <u>Kompressibel strömning</u>	5	D	-	-	52	9		2				
5C1400 <u>Ickelinjär dynamik i mekaniken</u>	5	C	24	-	-	-			3			
5C1840 <u>Strukturdynamik</u>	5	D	33	-	-	-				4	44 h Workshop44 h Workshop	
5C1860 <u>Modellering i FEM</u>	5	D	33	-	-	-		2			44 h Workshop44 h Workshop	
5C1992 <u>Turbulens</u>	4,5	D	-	-	36	3			3	4		

Sidansvarig: Studiehandboksredaktionen, studiehandbok@kth.se

Uppdaterad: 2003-03-01

Study Handbook

Syllabus

Curriculum

Courses, by

Department

TMS Courses

Abbreviations

Previous academic year (02/03)

Next academic year (04/05)

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												
1B1291 Environmental Dynamics/Chemical Processes <i>Students following Environmental Engineering</i>	5	D	30	8	-	16		2			8 h Exkursion	
1B1292 Environmental Dynamics/Physical Processes <i>Students following Environmental Engineering</i>	5	C	26	24	-	-		2				
1B1634 Environmental Impact Assessment* <i>First prio: Students within TESIM-, L- and V-programs. Second prio: Incoming exchange-students LV.</i>	5	C	30	26	-	-	1				8 h Exkursion 8 h Exkursion	
1H1142 Political Economy for Environmental Planners* <i>First prio: Students within TESIM-, L- and V-programs. Second prio: Incoming exchange-students LV.</i>	5	C	30	6	-	-	1				8 h Seminars	
1H1143 Sustainable Rural and Urban Development* <i>First prio: Students within TESIM-, L- and V-programs. Second prio: Incoming exchange-students LV. Students following Sustainable Infrastructure</i>	5	C	32	-	16	-		2			24 h Seminars, 8 h Exkursion	
1H1501 Human Settlements and Housing <i>Students following Sustainable Infrastructure</i> <i>Under bearbetning</i>	5	D	24	20	-	-		2				
1U1030 Theory of Science, Research Methodology and Excursions	5	D	29	-	-	-	1	2		4	Exkursion 40h Seminars Exkursion 40h	
Recommended Courses												
1B1233 Water and Waste Handling	5	C	-	-	77	-			3			
1B1333 Environmental Geology and Geophysics	5	D	27	27	-	-				4		
1B1635 Quantitative Hydrogeology	5	D	20	14	-	6				4	20 h Field excursions, 15 h Computer 20 h Field excursions, 15 h Computer	
1B1640 Natural Resources Management	5	D	19	-	-	36				4		
1E1610 Environmental Data* <i>First prio: Students within TESIM-, L- and V-programs. Second prio: Incoming exchange-students LV.</i>	5	D	18	2	-	38			3			

1F1462 Management of Land and Water	5	D	20	20	-	-				4	20 h Seminars
1H1141 Urban Infrastructure	5	D	-	-	56	-				4	
1H1146 Sustainable Project Management	5	C	35	-	-	30				3	15 h Field excursions

*The course has limited participation

Sidansvarig: Studiehandboksredaktionen, studiehandbok@kth.se

Uppdaterad: 2003-03-01

På svenska

Search

Innehåll

Kontakt

Kungl Tekniska Högskolan

Studentwebben

KTH / Studentwebben / Study Handbook (03 / 04)

Study Handbook

Syllabus

Curriculum
Courses, by
Department

TMS Courses
Abbreviations

[Previous academic year \(02/03\)](#)
[Next academic year \(04/05\)](#)

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	30	18	-	-		2			
2B1823 Avanced Semiconductor Materials	5	D	34	-	-	16			3		
2B1824 Optical Networking	5	D	28	-	-	-				4	

Sidansvarig: Studiehandboksredaktionen, studiehandbok@kth.se

Uppdaterad: 2003-03-01

Study Handbook**Syllabus**

Curriculum
Courses, by
Department

TMS Courses
Abbreviations

[Previous academic year \(02/03\)](#)[Next academic year \(04/05\)](#)**Informations- och kommunikationssäkerhet TIKSM1**

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2I1501 <u>Introduction to Information Security and its Environment</u>	10	D	22	-	-	16	1				Seminars 10 h
2I1502 <u>Introduction to Cryptography</u>	5	D	28	-	-	12		2			
2I1503 <u>Network Security</u>	5	D	18	-	-	18		2			
2I1504 <u>Software Engineering and Security Architecture</u>	5	D	18	-	-	18			3		
2I1505 <u>Legal Aspects of Information Security</u>	5	D	24	-	-	12			3		
2I1506 <u>Security Management</u>	10	D	24	-	-	6				4	Seminars 18 hours
Elective Courses											
2I1401 <u>Research Methodology and Scientific Writing</u>	2	D	15	-	-	-				4	

Sidansvarig: Studiehandboksredaktionen, studiehandbok@kth.se

Uppdaterad: 2003-03-01

[På svenska](#)[Search](#)[Innehåll](#)[Kontakt](#)

Kungl Tekniska Högskolan

Studentwebben

[KTH](#) / [Studentwebben](#) / [Study Handbook \(03 / 04\)](#)**Study Handbook****Syllabus****Curriculum****Courses, by****Department****TMS Courses****Abbreviations**[Previous academic year \(02/03\)](#)[Next academic year \(04/05\)](#)**Informations- och kommunikationssäkerhet TIKSM2**

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Elective Courses												
2I1259 Value-Based Software Engineering	5	D	28	-	-	-				4	Seminar 14 h	

Sidansvarig: Studiehandboksredaktionen, studiehandbok@kth.se

Uppdaterad: 2003-03-01

Kungl Tekniska Högskolan

Studentwebben

KTH / Studentwebben / Study Handbook (03/04)

Study Handbook

Syllabus

Curriculum

Courses, by

Department

TMS Courses

Abbreviations

[Previous academic year \(02/03\)](#)
[Next academic year \(04/05\)](#)

Internetworking

Internetworking TINTM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2G1701 <u>Advanced Internetworking</u> <i>The course is given in Kista.</i>	6	D	-	-	-	-	1				
Elective Courses											
2B1445 <u>Embedded Systems</u>	5	D	-	-	24	20	1				10 h SeminarsSelf study 150 h 10 h Seminars
2G1118 <u>Network Programming with Java</u>	4	D	20	10	-	8		2			
2G1318 <u>Queuing Theory and Teletraffic Systems</u>	4	D	24	24	-	-		2			
2G1319 <u>Communication System Design</u> <i>Replaces 2G1303. Also given as 2G1711, 12 credits; 2G1712, 16 credits and 2G1713, 20 credits</i>	10	D	-	-	-	-			3	4	Project work 400h
2G1325 <u>Practical Voice Over IP (VoIP)</u>	5	D	-	-	-	-				4	
2G1330 <u>Wireless and Mobile Network Architectures</u>	5	D	10	-	-	-				4	Assigned paper 50h
2G1332 <u>Management of Network and Networked Systems</u>	5	D	20	-	-	20	1				
2G1703 <u>Inter Domain Routing</u>	5	D	10	-	-	20		2			Home assignment
2G1704 <u>Internet Security and Privacy</u>	5	D	30	10	-	-		2			
2G1711 <u>Communication System Design</u>	12	D	-	-	-	-			3	4	
2G1712 <u>Communication System Design</u>	16	D	-	-	-	-			3	4	
2G1713 <u>Communication System Design</u>	20	D	-	-	-	-			3	4	
2G1720 <u>Global Entrepreneurial Leadership</u>	5	D	-	-	-	-		2			
2G1721 <u>Global IT Management</u>	5	D	20	-	-	-			3		Case studies and homework 20 h

Sidansvarig: Studiehandboksredaktionen, studiehandbok@kth.se

Uppdaterad: 2003-03-01

Study Handbook

Syllabus

Curriculum
Courses, by
Department

TMS Courses
Abbreviations

Previous academic year (02/03)

Next academic year (04/05)

Land Management

Land Management TLAMM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
1F1302 Real Estate Valuation*_	6	D	30	30	-	-				4	
1F1463 Real Estate Planning and Development, Continuation Course*_ <i>Under bearbetning</i>	5	D	-	-	-	-				4	
1F1467 Real Estate Planning and Development, Basic Course*_ <i>Under bearbetning</i>	5	C	-	-	-	-		2			
1F1469 Real Estate Law*_ <i>Under bearbetning</i>	5	C	-	-	-	-		2			
1F1472 Land Information Systems*_ <i>Limited course participation</i> <i>Under bearbetning</i>	6	D	-	-	-	-			3		
1F1473 Urban Land Management*_ <i>Under bearbetning</i>	5	C	-	-	-	-	1		3		
1N1301 Economics*_	3	AB	16	18	2	-	1				
1N1302 Real Estate Investment Analysis*_	3	C	-	-	36	-	1	2			
1N1403 Comparative Law*_ <i>Under bearbetning</i>	3	B	-	-	-	-	1				

*The course has limited participation

Sidansvarig: Studiehandboksredaktionen, studiehandbok@kth.se

Uppdaterad: 2003-03-01

På svenska

Search

Innehåll

Kontakt

Kungl Tekniska Högskolan

Studentwebben

KTH / Studentwebben / Study Handbook (03/04)

Study Handbook

Syllabus

Curriculum
Courses, by
Department

TMS Courses
Abbreviations

[Previous academic year \(02/03\)](#)
[Next academic year \(04/05\)](#)

Materials Processing

Materials Processing TMPEM1

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

Sidansvarig: Studiehandboksredaktionen, studiehandbok@kth.se

Uppdaterad: 2003-03-01

[På svenska](#)[Search](#)[Innehåll](#)[Kontakt](#)

Kungl Tekniska Högskolan

Studentwebben

[KTH](#) / [Studentwebben](#) / [Study Handbook \(03 / 04\)](#)**[Study Handbook](#)****[Syllabus](#)**[Curriculum
Courses, by
Department](#)[TMS Courses](#)[Abbreviations](#)[Previous academic year \(02/03\)](#)[Next academic year \(04/05\)](#)

Materials Processing

Materials Processing TMPEM2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4M1051 <u>Project</u>	4	D	-	160	-	-	1	2			
4M1343 <u>Materials Processing, Project Support</u>	4	D	72	48	-	40	1	2			
4M1344 <u>Metrology in Materials Processing</u>	4	D	16	-	-	80	1				Seminars 16h
4M1346 <u>Simulation and Modelling</u>	4	D	10	80	-	-	1	2			
4M1347 <u>Metal Forming</u>	4	D	8	28	-	-	1	2			
4M1370 <u>Solidification Processing</u>	4	D	36	24	-	-	1	2			

Sidansvarig: Studiehandboksredaktionen, studiehandbok@kth.se

Uppdaterad: 2003-03-01

Kungl Tekniska Högskolan

Studentwebben

KTH / Studentwebben / Study Handbook (03 / 04)

Study Handbook

Syllabus

Curriculum

Courses, by

Department

TMS Courses

Abbreviations

Previous academic year (02/03)

Next academic year (04/05)

Quantum Physics

Quantum Physics TQPHM1

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

Study Handbook**Syllabus**

Curriculum
Courses, by
Department

TMS Courses

Abbreviations

[Previous academic year \(02/03\)](#)
[Next academic year \(04/05\)](#)

Real Estate Management

Real Estate Management TREMM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
1F1332 <u>Investment Analysis</u>	5	C	30	30	-	-		2			
1F1333 <u>Real Estate Market Analysis and Development</u>	5	D	30	30	-	-			3		
1F1339 <u>Real Estate Finance and Economics</u>	5	D	30	30	-	-				4	
1H1157 <u>Urban and Regional Economics</u>	5	D	-	-	66	-		2			
1N1303 <u>Business Cycles in Construction and Real Estate Market</u>	5	C	30	30	-	-	1				
1N1304 <u>Research Methodology and Theory of Science</u>	5	C	-	-	-	-	1				
1N1305 <u>Financial Analysis</u>	5	C	30	30	-	-			3		
Recommended Courses											
1F1331 <u>Real Estate Valuation</u>	5	D	30	30	-	-				4	
Elective Courses											
1F1462 <u>Management of Land and Water</u>	5	D	20	20	-	-				4	20 h Seminars
1F1565 <u>Facilities Management</u>	5	D	-	-	66	-				4	

Sidansvarig: Studiehandboksredaktionen, studiehandbok@kth.se

Uppdaterad: 2003-03-01

Study Handbook

Syllabus

Curriculum
Courses, by
Department

TMS Courses

Abbreviations

[Previous academic year \(02/03\)](#)

[Next academic year \(04/05\)](#)

Scientific Computing

Scientific Computing TSCOM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1250 Applied Numerical Methods II	6	C	-	-	56	24			3	4	
2D1255 Numerical Solutions of Differential Equations	5	D	36	-	-	20			3	4	
2D1260 The Finite Element Method	4	C	18	14	-	12		2			
2D1263 Program Construction for Scientific Computing <i>Will not be on the central schedule.</i>	4	C	24	-	-	12			3	4	
2D1266 Mathematical Models, Analysis and Simulation Part I	5	C	48	-	-	26	1	2			
Elective Courses											
2D1257 Visualization	4	C	20	-	-	10			3		
2D1269 Mathematical Models, Analysis and Simulation, part II	5	D	48	-	-	28			3	4	
2D1272 Computational Physics <i>The course will not be on the central schedule.</i>	5	D	24	-	-	-				4	
2D1274 Computational Electromagnetics <i>Not on the central schedule. May not be given in 03/ 04.</i>	5	D	24	-	-	12	1	2			
2D1285 Numerical Algorithms for Parallel Computers <i>The course will not be on the central schedule. Not given 03/ 04.</i>	4	D	24	-	-	-					
2D1290 Advanced Numerical Analysis <i>The course will not be on the central schedule.</i>	4	D	28	-	-	14				4	
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	

På svenska

Search

Innehåll

Kontakt

Kungl Tekniska Högskolan

Studentwebben

KTH / Studentwebben / Study Handbook (03 / 04)

Study Handbook

Syllabus

Curriculum
Courses, by
Department

TMS Courses
Abbreviations

[Previous academic year \(02/03\)](#)
[Next academic year \(04/05\)](#)

Scientific Computing

Scientific Computing TSCOM2

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

*The course has limited participation

Sidansvarig: Studiehandboksredaktionen, studiehandbok@kth.se

Uppdaterad: 2003-03-01

Study Handbook

Syllabus

Curriculum
Courses, by
Department

TMS Courses
Abbreviations

[Previous academic year \(02/03\)](#)
[Next academic year \(04/05\)](#)

Spatial Planning

Spatial Planning TSPLM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
1H1157 Urban and Regional Economics	5	D	-	-	66	-		2			
1H1170 Sustainable Cities	10	D	-	-	120	-	1				
1H1171 Urban Governance	5	D	30	-	-	-			3		6 h Seminars6 h Seminars
1H1172 Futures Studies and Forecasts	5	D	-	-	36	-		2			30 h Computer
1H1174 Planning for Regional Development	10	D	27	26	-	-				4	Large Projecttask
1H1183 Spatial Planning with GIS	5	D	30	-	-	36			3		

Sidansvarig: Studiehandboksredaktionen, studiehandbok@kth.se

Uppdaterad: 2003-03-01

Study Handbook

Syllabus

Curriculum
Courses, by
Department

TMS Courses
Abbreviations

[Previous academic year \(02/03\)](#)
[Next academic year \(04/05\)](#)

Sustainable Energy Engineering

Sustainable Energy Engineering TSEEM1

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

Sidansvarig: Studiehandboksredaktionen, studiehandbok@kth.se

Uppdaterad: 2003-03-01

Study Handbook

Syllabus

Curriculum
Courses, by
Department

TMS Courses
Abbreviations

[Previous academic year \(02/03\)](#)
[Next academic year \(04/05\)](#)

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											
2B1430 Design of Digital Integrated Circuits - LSI <i>Given in Kista Given in Kista</i>	5	C	-	-	-	-	1	2			
2B1445 Embedded Systems	5	D	-	-	24	20	1				10 h SeminarsSelf study 150 h 10 h Seminars
2B1447 SoC Architectures	4	D	30	-	-	-		2			
2B1512 Digital Design with HDL	6	D	30	-	-	60	1	2			
4D1058 Intellectual Property Right Management	4	C	10	15	-	-		2			
Elective Courses											
2B1423 ASIC-design Methodology with High-level Languages	5	D	26	-	-	20				4	
2B1427 Design of Digital Integrated Circuits - VLSI	5	D	20	8	-	32			3		
2B1429 System Modelling	5	D	20	16	-	24			3		
2B1450 Electronic System Packaging	5	D	-	-	-	-			3		
2B1453 Design of Fault-tolerant Systems	4	D	24	6	-	-				4	
2B1455 Anatomy of EDA CAD-tools	5	D	24	6	-	-			3		
2B1457 Special Topics on SoC	4	D	40	-	20	-				4	
2B1600 Radio Electronics	5	D	26	12	-	16				4	
2B1610 Low Power Analog and Mixed Signal IC's <i>Replaced by 2B1611</i>	5	D	42	14	-	-				4	

Sidansvarig: Studiehandboksredaktionen, studiehandbok@kth.se

Uppdaterad: 2003-03-01

Study Handbook

Syllabus

Curriculum
Courses, by
Department

TMS Courses
Abbreviations

Previous academic year (02/03)

Next academic year (04/05)

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											
211040 Knowledge and Software Reuse	4	C	18	18	-	40			3		
211228 Enterprise Computing and ERP Systems	5	D	14	12	-	60	1				80h
211401 Research Methodology and Scientific Writing	2	D	15	-	-	-	1				
211402 Processes for IT Project Management	4	D	24	-	-	-		2			9h
Elective Courses											
2C1520 Requirements Engineering <i>Under bearbetning</i>	5	D	22	6	-	-				4	
2G1332 Management of Network and Networked Systems	5	D	20	-	-	20	1				
211030 Introduction to Computer Security	4	B	-	-	-	15			3		Other 100 hours
211041 Software Evolution and Maintenance <i>This course is a part-time course (75%), meaning that you accomplish 4 credits within 6 weeks.</i>	4	C	21	16	-	9			3		group counselling 1h
211052 Internet Information Search Techniques	4	C	-	-	-	-		2			
211053 Internet and ERP Systems	5	C	12	-	-	-		2			Project work 80 h
211056 Relational Database Design - Logical and Physical <i>Not given 2003/2004</i>	4	C	12	12	-	60		2			Computer tutorials and hand in assignments 80h
211224 Data Warehousing	4	D	15	10	-	30				4	
211229 Knowledge Management	4	D	28	-	-	18				4	70h
211242 Models and Languages for Object and Web Databases	5	D	21	15	70	70			3		
211259 Value-Based Software Engineering	5	D	28	-	-	-				4	Seminar 14 h
211406 Mobile Business	5	D	18	12	-	-				4	Project work 80 h
211407 Foundations of Information Systems	5	D	15	-	-	-				4	

Study Handbook**Syllabus**

Curriculum
Courses, by
Department

TMS Courses

Abbreviations

[Previous academic year \(02/03\)](#)

[Next academic year \(04/05\)](#)

Philosophy of 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	-	-			3		
1H1602 Good and Bad Science	5	C	32	-	-	-			3	4	
1H1603 Technology and Ethics	5	C	24	-	-	-	1				8 h Seminars
1H1603 Technology and Ethics	5	C	24	-	-	-			3		8 h Seminars
1H1604 Philosophy of Risk	5	C	18	-	-	-		2			12 h Seminars
1N1106 Philosophy of Science	5	D	20	-	-	6				4	4 h Seminars4 h Seminars
1N1107 Information Analysis	5	C	16	14	-	-				4	
1N1108 Computer- and Information Ethics	5	C	20	10	-	-			3		
1N1109 Ethics of Biotechnology	5	C	24	-	-	-	1	2			6 h Seminarsindividual essay-tutorials 6 h Seminars
1N1111 The Epistemology of Technology	5	D	20	-	-	-				4	10 h Seminars
1N1112 Human and Machine Rationality <i>The course will be given from 03/04</i>	5	D	20	10	-	-	1				
1N1113 Aesthetics and Technology <i>The course will be given from 03/04</i>	5	C	20	10	-	-		2			

Sidansvarig: Studiehandboksredaktionen, studiehandbok@kth.se

Uppdaterad: 2003-03-01

Study Handbook

Syllabus

Curriculum
Courses, by
Department

TMS Courses

Abbreviations

[Previous academic year \(02/03\)](#)

[Next academic year \(04/05\)](#)

Applied Information Technology

Applied Information Technology TTITM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Elective Courses											
2I1256 <u>Current Problems in Software Engineering</u>	4	D	-	-	-	-	1	2	3	4	160h
2I1404 <u>Component and Service Oriented Information Systems Architecture</u>	5	D	14	-	-	120	1				
2I1406 <u>Mobile Business</u>	5	D	18	12	-	-				4	Project work 80 h
2I1407 <u>Foundations of Information Systems</u>	5	D	15	-	-	-				4	
2I1601 <u>Research Methodology and Scientific Writing</u>	3	C	20	-	-	-			3		
2I1602 <u>Logic and Discrete Mathematics I</u>	4	B	24	-	12	-				4	
2I1603 <u>Human ComputerBInteraction</u>	4	B	25	-	-	9	1				Seminas 6 hours
2I1604 <u>Project Management and Group Dynamics</u>	3	B	18	-	-	24	1				Seminars 15 hours
2I1605 <u>Logic and Discrete Mathematics II</u>	3	B	33	9	-	-	1	2			
2I1606 <u>Information Systems - Usage and Initial Development Phases</u>	4	B	30	-	-	-			3		Seminars 1
2I1607 <u>Data Bases</u>	4	B	18	-	-	-				4	3 h Seminars Project work 3 h Seminars
2I1608 <u>Objektoriented System Development</u>	4	B	30	-	6	-				4	Project work 27 hours
2I1609 <u>Web-design</u>	5	B	18	-	-	-				4	Project work 80-100 Hours
2I1651 <u>Management with IT I</u>	20	B	-	-	-	-	1	2			
2I1652 <u>Management with IT II</u>	20	B	-	-	-	-			3	4	
2I1661 <u>IT-Management I</u>	20	C	-	-	-	-			3	4	
2I1662 <u>IT-Management II</u>	20	C	-	-	-	-	1	2			
2I1701 <u>Current Problems in Computer and Systems Sciences</u>	5	D	-	-	-	-	1	2	3	4	
2I1702 <u>Advanced Course in Computer and Systems Sciences</u>	5	D	-	-	-	-	1	2	3	4	

Study Handbook**Syllabus**

Curriculum
Courses, by
Department

TMS Courses**Abbreviations**[Previous academic year \(02/03\)](#)[Next academic year \(04/05\)](#)

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			
Conditionally Elective Courses											
6S3703 Legislation Issues in Logistics	5	C	-	-	-	-			3		
6S3704 Leadership and Personal Development	5	A	-	-	-	-				4	
Under bearbetning											

Sidansvarig: Studiehandboksredaktionen, studiehandbok@kth.se

Uppdaterad: 2003-03-01

Study Handbook

Syllabus

Curriculum
Courses, by
Department

TMS Courses
Abbreviations

Previous academic year (02/03)

Next academic year (04/05)

Wireless Systems

Wireless Systems TWSSM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2E1422 <u>Introduction to Signal Theory</u>	3	C	18	9	-	-	1				
2E1432 <u>Digital Communications</u>	6	C	32	30	-	12	1	2			
2E1511 <u>Radio Communication, Basic Course</u>	4	D	24	24	-	8	1				
Elective Courses											
2B1600 <u>Radio Electronics</u>	5	D	26	12	-	16				4	
2E1340 <u>Digital Signal Processing</u>	5	C	26	24	-	3		2			
2E1350 <u>Adaptive Signal Processing</u>	4	D	24	14	-	-			3		
2E1367 <u>Project Course in Signal Processing&Digital Communications</u>	8	D	12	-	-	50				4	
2E1381 <u>Seminars in Wireless Systems</u>	2	D	-	-	-	-			3	4	Seminars 16h
2E1400 <u>Speech Signal Processing</u> <i>Replaces 2F1521.</i>	4	D	24	24	-	-		2			
2E1410 <u>Information Theory and Source Coding, Accel Program Course</u> <i>Replaces 2F1532.</i>	5	D	36	12	-	-			3		
2E1436 <u>Advanced Digital Communications</u>	4	D	26	26	-	-			3		
2E1512 <u>Wireless Networks*</u>	8	D	30	24	-	12				4	
2G1305 <u>Internetworking</u>	4	D	20	20	-	26			3		
2G1318 <u>Queuing Theory and Teletraffic Systems</u>	4	D	24	24	-	-		2			
2G1319 <u>Communication System Design</u> <i>Replaces 2G1303. Also given as 2G1711, 12 credits; 2G1712, 16 credits and 2G1713, 20 credits</i>	10	D	-	-	-	-			3	4	Project work 400h

*The course has limited participation