

Study Handbook

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Curriculum

Courses, by

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Abbreviations

[Previous academic year \(06/07\)](#)[Next academic year \(08/09\)](#)

Chemical Engineering

Chemical Engineering TKETM1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
KE2010 Industrial Energy Processes	7,5	D	20	20	-	-	1	2			
KE2020 Chemical Engineering	9	D	16	18	-	12				4	
KE2040 Chemical Reaction Engineering	9	D	16	24	-	34	1	2			
KE2070 Transport Phenomena, Advanced Course	7,5	D	18	12	-	-			3		6 h Seminars, 12 h Computer 6 h Seminars, 12 h Computer
KE2080 Chemical Engineering in Fine and Specialty Chemicals	7,5	D	20	12	42	27	1				8h industry visit
Recommended Courses											
DD1320 Applied Computer Science <i>Replaces 2D1320.</i>	6	A	28	14	-	20	1	2			
DN2225 Numerical Solutions of Differential Equations <i>Replaces 2D1225.</i>	6	C	24	4	-	12	1	2			
EL1000 Automatic Control, General Course <i>Replaces 2E1200</i>	6	C	24	26	-	12	1				
KD1050 Chemical Thermodynamics	6	B	28	30	-	-	1				
KD1060 Molecular Structure	7,5	B	36	22	-	20		2	3		
KD1110 Chemical Measuring Techniques	7,5	B	22	4	-	12	1				
KD1130 Inorganic Chemistry	6	C	24	4	-	20	1				40 h Projektuppgift 40 h Projektuppgift
KD2010 Analytical Chemistry	6	C	16	-	-	16			3		
KD2040 Quantum Chemistry and Spectroscopy	9	D	48	-	-	8	1				
KD2070 Technical Surface Colloid Chemistry	6	C	32	6	-	12				4	

KD2120 Atmosphere, Aquatic and Terrestrial Chemistry	7,5	C	12	10	-	24				4	
KD2180 Organic Chemistry, Advanced Course 1	13,5	C	12	6	-	54	1			4	
KD2190 Organic Chemistry, Theory, Advanced Course 1	7,5	C	12	6	-	-				4	
KE1020 Reaction and Separation Engineering	10,5	C	28	30	-	12	1	2			8 h Seminars, 10 h Computer, 8 h Study visit 8 h Seminars, 10 h Computer, 8 h Study visit
KE2010 Industrial Energy Processes	7,5	D	20	20	-	-	1	2			
KE2020 Chemical Engineering	9	D	16	18	-	12				4	
KE2030 Chemical Engineering, Laboratory Course	6	D	2	-	80	-				3	
KE2040 Chemical Reaction Engineering	9	D	16	24	-	34	1	2			
KE2050 Environmental Catalysis	6	D	30	-	-	-				3	6 h Seminars, 6 h Study visit 6 h Seminars, 6 h Study visit
KE2060 Computational Project in Chemical Engineering	7,5	D	-	-	-	-				4	5 weeks fulltime (including compulsory technical report, web based presentation and a seminar)
KE2070 Transport Phenomena, Advanced Course	7,5	D	18	12	-	-				3	6 h Seminars, 12 h Computer 6 h Seminars, 12 h Computer
KE2080 Chemical Engineering in Fine and Specialty Chemicals	7,5	D	20	12	42	27	1				8h industry visit
KE2110 Applied Electrochemistry	7,5	D	32	16	-	15				3	
KE2120 Chemical Engineering, Design Course	15	D	40	120	-	-				4	
KF2010 Wood Chemistry and Wood Biotechnology	6	D	26	-	-	15				3	
KF2020 The Chemistry of Pulping and Bleaching	7,5	D	26	-	-	-		2			24 h Seminars 24 h Seminars
KF2030 Fiber Technology	6	D	26	-	-	15				4	
KF2040 Paper Physics	6	D	20	-	-	20		2			
KF2050 Paper Processes Technology	6	D	20	-	-	20				3	
KF2060 Pulp and Paper Processes	9	D	40	-	-	48	1	2			
KF2100 Pulp Technology	6	D	24	-	-	-				4	24 h Seminars 24 h Seminars
KF2110 Mechanical Properties of Materials	7,5	C	30	15	-	12				4	

<u>MF2015 Combustion Engines, general course*</u> <i>Replaces 4F1430</i>	6	C	42	6	-	12	1				
<u>MF2016 Combustion Engines, Advanced Course*</u> <i>Replaces 4F1431.</i>	9	D	48	-	-	28	2	3			
<u>MJ2140 Energy Systems and Models I</u> <i>This course is not given the academic year 05/06.</i>	6	D	14	32	-	-	1				9 h Seminars Seminars 9 H 9 h Seminars
<u>MJ2410 Energy Management</u> <i>Replaces 4A1610</i>	6	D	50	-	-	-		2	3		
<u>MJ2411 Renewable Energy Technology</u> <i>Replaces 4A1611</i>	6	D	-	-	52	-	1				Study visit 8h
<u>MJ2413 Energy and Environment</u> <i>Replaces 4A1613</i> <i>Examinator: Björn Palm, Tel 790 7453</i>	6	D	50	-	-	-			3	4	Study visit 6h
<u>MJ2626 Environmental Technology and Environmental Impact Studies, Larger Course</u> <i>Replaces 3C1347</i>	12	D	40	15	-	-			3	4	Project work, Tutorials/Lab.
<u>SF1641 Mathematics, Advanced Course, Partial Differential Equations</u> <i>Replaces 5B1301.</i>	6	C	-	-	60	-			3		
<u>SG2212 Computational Fluid Dynamics</u> <i>Replaces 5C1212.</i>	7,5	D	-	-	50	10			3		

*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 <i>Under bearbetning</i>	20	D	-	-	-	-	1	2			

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Computer Science

Computer Science TDATM2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Elective Courses											
DD241X Degree Project in Computer Science (Master of Science) <i>Replaces 2D1041.</i>	30	D	-	-	-	-					

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Human-Computer Interaction

Human-Computer Interaction TMDIM2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
DH242X Degree Proj in Human- Computer Interact.(Master of Science) <i>Replaces 2D1042.</i>	30	D	-	-	-	-					

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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											
MJ2680 Environmental Systems Analysis <i>Replaces 3C1387</i>	6	C	16	8	-	6		2			
Recommended Courses											
BB2010 Environmental Toxicology	9	D	36	14	-	-	1	2			
KD1050 Chemical Thermodynamics	6	B	28	30	-	-	1				
KD1060 Molecular Structure	7,5	B	36	22	-	20		2	3		
KD1110 Chemical Measuring Techniques	7,5	B	22	4	-	12	1				
KD1130 Inorganic Chemistry	6	C	24	4	-	20	1				40 h Projektuppgift 40 h Projektuppgift
KD2010 Analytical Chemistry	6	C	16	-	-	16			3		
KD2040 Quantum Chemistry and Spectroscopy	9	D	48	-	-	8	1				
KD2050 Molecular Thermodynamics	6	D	24	4	-	-			3		
KD2060 NMR-spectroscopy	6	D	30	-	-	12		2			
KD2070 Technical Surface Colloid Chemistry	6	C	32	6	-	12				4	
KD2080 Nuclear Chemistry	7,5	C	30	-	-	20		2			
KD2090 Nuclear Fuel Cycle	6	D	16	-	-	6			3		Project
KD2100 Radical Chemistry	7,5	C	30	-	-	-			3		
KD2120 Atmosphere, Aquatic and Terrestrial Chemistry	7,5	C	12	10	-	24				4	
KD2140 Bio-inorganic Chemistry	7,5	D	20	6	-	15				4	
KD2150 Inorganic Materials Chemistry	7,5	D	20	6	-	15				4	
KD2160 Structural Chemistry	7,5	D	16	6	-	16	1				
KD2170 Nano-structured Materials	7,5	D	16	6	-	16		2			

KD2180 Organic Chemistry, Advanced Course 1	13,5	C	12	6	-	54	1		4	
KD2190 Organic Chemistry, Theory, Advanced Course 1	7,5	C	12	6	-	-			4	
KD2210 Applied Organic Molecular Spectroscopy	6	D	-	-	-	-	1			
KD2220 Selective Organic Synthesis	6	D	28	-	-	-			3	
KE1020 Reaction and Separation Engineering	10,5	C	28	30	-	12	1	2		8 h Seminars, 10 h Computer, 8 h Study visit 8 h Seminars, 10 h Computer, 8 h Study visit
KE2010 Industrial Energy Processes	7,5	D	20	20	-	-	1	2		
KE2020 Chemical Engineering	9	D	16	18	-	12			4	
KE2030 Chemical Engineering, Laboratory Course	6	D	2	-	80	-			3	
KE2040 Chemical Reaction Engineering	9	D	16	24	-	34	1	2		
KE2050 Environmental Catalysis	6	D	30	-	-	-			3	6 h Seminars, 6 h Study visit 6 h Seminars, 6 h Study visit
KE2060 Computational Project in Chemical Engineering	7,5	D	-	-	-	-			4	5 weeks fulltime (including compulsory technical report, web based presentation and a seminar)
KE2070 Transport Phenomena, Advanced Course	7,5	D	18	12	-	-			3	6 h Seminars, 12 h Computer 6 h Seminars, 12 h Computer
KE2080 Chemical Engineering in Fine and Specialty Chemicals	7,5	D	20	12	42	27	1			8h industry visit
KE2110 Applied Electrochemistry	7,5	D	32	16	-	15			3	
KE2120 Chemical Engineering, Design Course	15	D	40	120	-	-			4	
KF2010 Wood Chemistry and Wood Biotechnology	6	D	26	-	-	15			3	
KF2020 The Chemistry of Pulping and Bleaching	7,5	D	26	-	-	-		2		24 h Seminars 24 h Seminars
KF2030 Fiber Technology	6	D	26	-	-	15			4	
KF2040 Paper Physics	6	D	20	-	-	20		2		
KF2050 Paper Processes Technology	6	D	20	-	-	20			3	
KF2060 Pulp and Paper Processes	9	D	40	-	-	48	1	2		
KF2100 Pulp Technology	6	D	24	-	-	-			4	24 h Seminars 24 h Seminars
KF2130 Polymer Chemistry	7,5	D	18	18	-	45	1			

<u>MJ1500 Technology and Ecosystems</u> <i>Replaces</i> <i>3C1330</i>	6	A	22	3	-	-	1				
<u>MJ2622 Environmental Technology, Advanced Course II</u> <i>Replaces</i> <i>3C1342</i>	9	D	-	-	-	-					Project work
<u>MJ2626 Environmental Technology and Environmental Impact Studies, Larger Course</u> <i>Replaces</i> <i>3C1347</i>	12	D	40	15	-	-			3	4	Project work, Tutorials/Lab.
<u>MJ2630 Waste Management, Advanced Course</u> <i>Replaces</i> <i>3C1350</i>	6	D	18	-	-	-				4	Project work, Assignments, Study visit 4 halfdays
<u>MJ2653 Environmental Consequences, Advanced Course II</u> <i>Replaces</i> <i>3C1365</i>	6	D	15	15	-	40	1	2			Field exercises
<u>MJ2663 Environmental Management</u> <i>Replaces</i> <i>3C1380</i>	6	C	10	-	-	-	1				Seminars 12 h
<u>MJ2670 Risk Management</u> <i>Replaces</i> <i>3C1383</i>	6	C	16	15	-	-	1				The course is given in Swedish in period 1 and in English in period 3.
<u>MJ2680 Environmental Systems Analysis</u> <i>Replaces</i> <i>3C1387</i>	6	C	16	8	-	6		2			
<u>MJ283V Environmental Technology</u> <i>Replaces</i> <i>3C4350</i>	7,5	C	-	-	-	-			3	4	



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Industrial Ecology

Industrial Ecology TIEKM4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Recommended Courses											
MJ2664 Environmental Management II, Advanced Course <i>Replaces</i> <i>3C1381</i>	6	D	8	6	-	-				4	Project

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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											
KF2110 Mechanical Properties of Materials	7,5	C	30	15	-	12					4
Conditionally Elective Courses											
KD2150 Inorganic Materials Chemistry	7,5	D	20	6	-	15					4
KF2010 Wood Chemistry and Wood Biotechnology	6	D	26	-	-	15			3		
KF2030 Fiber Technology	6	D	26	-	-	15					4
KF2130 Polymer Chemistry	7,5	D	18	18	-	45	1				
KF2140 Polymer Physics	7,5	D	18	18	-	45			3		
Recommended Courses											
IM2601 Solid State Physics <i>Replaces</i> 2B1711 <i>Under bearbetning</i>	6	D	30	18	-	12			3	4	
IM2652 Surface Physics, Basic Course <i>Replaces</i> 2B1263 <i>Under bearbetning</i>	6	D	36	-	-	-			3		
IM2662 Experimental Methods in Material Physics <i>Replaces</i> 2B1760 <i>Under bearbetning</i>	7,5	C	26	22	-	30		2	3		
KD1050 Chemical Thermodynamics	6	B	28	30	-	-	1				
KD1060 Molecular Structure	7,5	B	36	22	-	20		2	3		
KD1110 Chemical Measuring Techniques	7,5	B	22	4	-	12	1				
KD1130 Inorganic Chemistry	6	C	24	4	-	20	1				40 h Projektuppgift 40 h Projektuppgift
KD2010 Analytical Chemistry	6	C	16	-	-	16			3		

KD2070 Technical Surface Colloid Chemistry	6	C	32	6	-	12				4	
KD2150 Inorganic Materials Chemistry	7,5	D	20	6	-	15				4	
KD2160 Structural Chemistry	7,5	D	16	6	-	16	1				
KD2170 Nano-structured Materials	7,5	D	16	6	-	16		2			
KD2180 Organic Chemistry, Advanced Course 1	13,5	C	12	6	-	54	1			4	
KE1020 Reaction and Separation Engineering	10,5	C	28	30	-	12	1	2			8 h Seminars, 10 h Computer, 8 h Study visit 8 h Seminars, 10 h Computer, 8 h Study visit
KF2010 Wood Chemistry and Wood Biotechnology	6	D	26	-	-	15				3	
KF2020 The Chemistry of Pulping and Bleaching	7,5	D	26	-	-	-		2			24 h Seminars 24 h Seminars
KF2030 Fiber Technology	6	D	26	-	-	15				4	
KF2050 Paper Processes Technology	6	D	20	-	-	20				3	
KF2060 Pulp and Paper Processes	9	D	40	-	-	48	1	2			
KF2080 Paper Technology, project	6	D	-	-	-	-				3	4 Project work
KF2090 Paper Chemistry	6	D	26	15	-	-				3	
KF2100 Pulp Technology	6	D	24	-	-	-				4	24 h Seminars 24 h Seminars
KF2110 Mechanical Properties of Materials	7,5	C	30	15	-	12				4	
KF2130 Polymer Chemistry	7,5	D	18	18	-	45	1				
KF2140 Polymer Physics	7,5	D	18	18	-	45				3	
KF2150 Surface Coatings Chemistry	7,5	D	30	-	-	28				4	
KF2160 Mechanical Properties and Testing of Polymers	7,5	D	30	12	-	12				3	
KF2170 Polymer Process Engineering I	7,5	D	30	10	-	28				4	
KF2180 Biopolymers	7,5	D	20	6	-	25				3	
KF2190 Polymeric Materials: Structure and Properties	7,5	D	18	18	-	45		2			
MH1009 Materials Physics <i>Replaces 4H1806</i>	6	B	40	20	-	15				4	
MH2300 Functional Materials <i>Replaces 4H1609</i>	6	D	18	-	-	6				3	Study visit 8h
MH2301 Advanced Materials <i>Replaces 4H1610</i>	6	C	18	-	-	6				3	Study visit 8h Seminars 18h



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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											
MH2275 Project Assignment <i>Replaces 4M1051</i>	6	D	-	160	-	-	1				
MH2279 Materials Processing, Project Support <i>Replaces 4M1343</i>	6	D	72	48	-	40	1	2			
MH2280 Simulation and Modelling <i>Replaces 4M1346</i>	6	D	10	80	-	-	1	2			
MH2281 Metal Forming <i>Replaces 4M1347</i>	6	D	8	28	-	-	1				
MH2283 Solidification Processing <i>Replaces 4M1370</i>	6	D	36	24	-	-	1				

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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											
BB1050 Biotechnology	6	B	36	-	-	-	2				
KD2010 Analytical Chemistry	6	C	16	-	-	16		3			
KD2040 Quantum Chemistry and Spectroscopy	9	D	48	-	-	8	1				
KD2050 Molecular Thermodynamics	6	D	24	4	-	-		3			
KD2070 Technical Surface Colloid Chemistry	6	C	32	6	-	12				4	
KD2190 Organic Chemistry, Theory, Advanced Course 1	7,5	C	12	6	-	-				4	
Recommended Courses											
BB1050 Biotechnology	6	B	36	-	-	-	2				
BB2020 Molecular Enzymology	7,5	D	28	8	-	10	2				
KD1050 Chemical Thermodynamics	6	B	28	30	-	-	1				
KD1060 Molecular Structure	7,5	B	36	22	-	20	2	3			
KD1110 Chemical Measuring Techniques	7,5	B	22	4	-	12	1				
KD1130 Inorganic Chemistry	6	C	24	4	-	20	1			40 h Projektuppgift 40 h Projektuppgift	
KD2010 Analytical Chemistry	6	C	16	-	-	16		3			
KD2040 Quantum Chemistry and Spectroscopy	9	D	48	-	-	8	1				
KD2050 Molecular Thermodynamics	6	D	24	4	-	-		3			
KD2060 NMR-spectroscopy	6	D	30	-	-	12	2				
KD2070 Technical Surface Colloid Chemistry	6	C	32	6	-	12				4	
KD2080 Nuclear Chemistry	7,5	C	30	-	-	20	2				
KD2090 Nuclear Fuel Cycle	6	D	16	-	-	6		3		Project	
KD2100 Radical Chemistry	7,5	C	30	-	-	-		3			
KD2120 Atmosphere, Aquatic and Terrestrial Chemistry	7,5	C	12	10	-	24				4	

KD2140 Bio-inorganic Chemistry	7,5	D	20	6	-	15			4
KD2150 Inorganic Materials Chemistry	7,5	D	20	6	-	15			4
KD2160 Structural Chemistry	7,5	D	16	6	-	16	1		
KD2170 Nano-structured Materials	7,5	D	16	6	-	16	2		
KD2180 Organic Chemistry, Advanced Course 1	13,5	C	12	6	-	54	1		4
KD2190 Organic Chemistry, Theory, Advanced Course 1	7,5	C	12	6	-	-			4
KD2210 Applied Organic Molecular Spectroscopy	6	D	-	-	-	-	1		
KD2220 Selective Organic Synthesis	6	D	28	-	-	-			3
KE2090 Pharmaceutical Technology <i>Lectures are given in Stockholm (KTH) and laboratory work in Uppsala (Biomedical centre).</i>	7,5	D	32	10	-	25			3
KF2010 Wood Chemistry and Wood Biotechnology	6	D	26	-	-	15			3
KF2130 Polymer Chemistry	7,5	D	18	18	-	45	1		
KF2140 Polymer Physics	7,5	D	18	18	-	45			3
SK2800 Laser Spectroscopy <i>Replaces 5A1490.</i>	8	D	24	-	-	12	2		
SK2810 Femto Chemistry <i>Replaces 5A1491.</i>	8	D	36	-	-	-			3

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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											
KE2090 Pharmaceutical Technology <i>Lectures are given in Stockholm (KTH) and laboratory work in Uppsala (Biomedical centre).</i>	7,5	D	32	10	-	25			3		
Conditionally Elective Courses											
BB1050 Biotechnology	6	B	36	-	-	-		2			
BB2170 Drug Development	6	D	36	-	-	-			3		8 h Study visit 8 h Study visit
KD2070 Technical Surface Colloid Chemistry	6	C	32	6	-	12				4	
KD2180 Organic Chemistry, Advanced Course 1	13,5	C	12	6	-	54	1			4	
KE2080 Chemical Engineering in Fine and Specialty Chemicals	7,5	D	20	12	42	27	1				8h industry visit
Recommended Courses											
BB1060 Molecular Biotechnology	7,5	D	36	-	-	15		2			
BB2020 Molecular Enzymology	7,5	D	28	8	-	10		2			
BB2100 Microbiology, General Course	9	D	36	16	-	54			3	4	
BB2160 Structure Biology	7,5	D	30	-	-	22				4	6 h Seminars 6 h Seminars
DD2396 Bioinformatics <i>Replaces 2D1396.</i>	6	D	32	-	-	16			3		
EL1000 Automatic Control, General Course <i>Replaces 2E1200</i>	6	C	24	26	-	12	1				

HL1000 Quality and Regulatory Aspects on Medical Devices	3	D	20	-	-	-			3	4	
HL2006 Medical Engineering, Basic Course	7,5	D	-	-	-	-	1				
KD1050 Chemical Thermodynamics	6	B	28	30	-	-	1				
KD1060 Molecular Structure	7,5	B	36	22	-	20		2	3		
KD1110 Chemical Measuring Techniques	7,5	B	22	4	-	12	1				
KD1130 Inorganic Chemistry	6	C	24	4	-	20	1				40 h Projektuppgift 40 h Projektuppgift
KD2010 Analytical Chemistry	6	C	16	-	-	16			3		
KD2020 Organic and Biochemical Analytical Separations	7,5	D	28	20	-	36				4	
KD2040 Quantum Chemistry and Spectroscopy	9	D	48	-	-	8	1				
KD2070 Technical Surface Colloid Chemistry	6	C	32	6	-	12				4	
KD2080 Nuclear Chemistry	7,5	C	30	-	-	20		2			
KD2100 Radical Chemistry	7,5	C	30	-	-	-				3	
KD2160 Structural Chemistry	7,5	D	16	6	-	16	1				
KD2180 Organic Chemistry, Advanced Course 1	13,5	C	12	6	-	54	1				4
KD2190 Organic Chemistry, Theory, Advanced Course 1	7,5	C	12	6	-	-					4
KD2200 Organic Chemistry, Advanced Course	6	D	-	-	-	54	1				
KD2220 Selective Organic Synthesis	6	D	28	-	-	-				3	
KE1020 Reaction and Separation Engineering	10,5	C	28	30	-	12	1	2			8 h Seminars, 10 h Computer, 8 h Study visit 8 h Seminars, 10 h Computer, 8 h Study visit
KE2030 Chemical Engineering, Laboratory Course	6	D	2	-	80	-				3	
KE2040 Chemical Reaction Engineering	9	D	16	24	-	34	1	2			
KE2070 Transport Phenomena, Advanced Course	7,5	D	18	12	-	-				3	6 h Seminars, 12 h Computer 6 h Seminars, 12 h Computer
KE2110 Applied Electrochemistry	7,5	D	32	16	-	15				3	
KE2120 Chemical Engineering, Design Course	15	D	40	120	-	-					4
KF2110 Mechanical Properties of Materials	7,5	C	30	15	-	12					4
KF2130 Polymer Chemistry	7,5	D	18	18	-	45	1				
MG2024 Manufacturing Systems and Automation <i>Replaces 4K1105</i>	6	C	14	24	-	12		2			

