

Mechanical Engineering

Study Year 1 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	07/08					
								sp4					
								F	O	L	H	S	
MMK010	6	G1	-	S	Manual and Computer Aided Drafting		KS KE U W						
FMAA05	15	G1	-	S	Calculus in One Variable		KS KE U W						
FMA421	9	G1	-	S	Linear Algebra with Scientific Computation		KS KE U W						
MTTF01	5	G2	-	S	Logistics	X	KS KE U W						
FMA430	6	G1	-	S	Calculus in Several Variables		KS KE U W						
MIOA01	9	G1	-	S	Managerial Economics, Basic Course		KS KE U W						
FMA435	7.5	G1	-	S	Calculus in Several Variables	X	KS KE U W	10	10	0	0	20	
FMEA01	5	G1	-	S	Engineering Mechanics - Statics and Particle Dynamics		KS KE U W	42	28	0	0	62	
MMTA01	5	G1	-	S	Introduction to Mechanical Engineering		KS KE U W	14	14	14	14	64	
MTTF01	5	G2	-	S	Logistics	X	KS KE U W	24	10	0	40	46	

[MTTF01](#) Logistics: Kursomgång med start ht 07 lp 2 är för M3/MD3. Kursstart vt 08 lp 2 gäller för M1.

[FMA435](#) Calculus in Several Variables: [FMA435](#) Flerdimensionell analys med vektoranalys samt i åk 2 och 3 [FMA036](#) Linjär analys och [FMA037](#) Komplex analys för den som önskar större kurs i matematik. Övriga läser [FMA430](#).

Study Year 2 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	07/08					
								sp4					
								F	O	L	H	S	
FKM015	7.5	G1	-	S	Materials Engineering, Basic Course		KS KE U W						
FHL013	15	G2	-	E1	Solid Mechanics, Basic Course		KS KE U W						
MMT012	7.5	G2	-	S	Production and Manufacturing Methods		KS KE U W						
MME022	4.5	G2	-	S	Tribology		KS KE U						
MMV050	10.5	G2	-	S	Thermodynamics and Fluid Mechanics		KS KE U W	26	48	6	0	80	
FAF260	6	G1	-	S	Applied Optics and Waves		KS KE U W	30	14	16	0	100	
EDA501	6	G1	-	S	Programming, First Course	X	KS KE U W	Course on hold					

[EDA501](#) Programming, First Course: *Endast tentamen. Kursen ges nästa gång för M/MD läsåret 2008/09.*

Study Year 3 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	07/08					
								sp4					
								F	O	L	H	S	
FMS035	7.5	G2	-	S	Mathematical Statistics, Basic Course		KS KE U W						
MME035	9	G2	-	S	Transmissions		KS KE U						
FRT010	7.5	G2	-	E2	Automatic Control, Basic Course		KS KE U W						
MIE012	9	G2	-	S	Electrical Engineering, Basic Course		KS KE U W						

Specialisation en - Energy Technology

Course Code	Credits	Cycle	Mand./ Elect.		Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4				
												F	O	L	H	S
MVK093	6	G2	V		3	3	-	E1	Introduction to Combustion Engines		KS KE U W					
MVK106	6	A	V		3	3	-	E1	Advanced Combustion Engine Technology		KS KE U W	28	28	20	0	55
MVK170	6	G2	V		3	3	-	S	Applied Thermodynamics		KS KE U W	28	28	0	0	85
MMV031	7.5	G2	V		3	3	X	E1	Heat Transfer		KS KE U W	42	38	0	14	106
MVK061	6	A	V		4	3	-	E1	Energy Utilisation		KS KE U W					
MVK026	6	G2	V		4	3	-	S	Theory of Turbo Machinery		KS KE U W					
GEMF01	7.5	G2	V		4	3	-	S	Environmental Science		KS KE U W					
EIE030	6	A	V		4	3	X	E1	Electric Power Systems		KS KE U W					
MVK071	6	A	V		4	3	-	E1	Energy Supply Systems		KS KE U W					
MVK080	4.5	A	V		4	3	-	S	Fuel Gas Engineering		KS KE U W					
MVK051	7.5	A	V		4	3	X	S	Steam and Gas Turbine Engineering		KS KE U W					
MVK120	7.5	A	V		4	3	-	E1	Project Energy Economics and Planning		KS KE U W	4	0	0	42	54
MVKN01	7.5	A	V		4	3	-	S	Projecting Thermal Power Plants		KS KE U W	14	35	0	0	40

Specialisation fo - Automotive Engineering

Course Code	Credits	Cycle	Mand./ Elect.		Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4					
													F	O	L	H	S
MVK093	6	G2	V	3	3	-	E1	Introduction to Combustion Engines		KS KE U W							
MVK106	6	A	V	3	3	-	E1	Advanced Combustion Engine Technology		KS KE U W	28	28	20	0	55		
FHL064	7.5	G2	V	3	3	X	E2	Finite Element Method, Advanced Course		KS KE U W	32	28	0	0	140		
MAM041	7.5	G2	V	4	3	-	S	Man-Machine-System		KS KE U W							
MMT175	7.5	A	V	4	3	-	S	Composite Technology		KS KE U W							
FHL066	7.5	A	V	4	3	-	E2	Finite Element Method for Non-linear Systems		KS KE U W							
FMEN01	8	A	V	4	3	X	E2	Multibody Dynamics		KS KE U W							
MME070	7.5	A	V	4	3	X	S	Transmissions, Dimensioning		KS KE U							
FKM070	7.5	A	V	4	3	X	E1	Advanced Materials Technology		KS KE U W							
MAM085	7.5	G2	V	4	3	-	S	Ergonomics		KS KE U W	26	26	0	16	132		
FMEF05	8	G2	V	4	3	X	E2	Mechanical Vibrations		KS KE U W	42	14	0	0	155		

Specialisation fs - Combustion and Fluid Mechanics

Course Code	Credits	Cycle	Mand./ Elect.		Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4					
													F	O	L	H	S
MMV025	7.5	G2	V	3	3	-	S	Fluid Mechanics, Advanced Course		KS KE U W							
FBR012	7.5	G2	V	3	3	X	E1	Fundamental Combustion		KS KE U W	22	10	8	60	100		
MMV031	7.5	G2	V	3	3	X	E1	Heat Transfer		KS KE U W	42	38	0	14	106		
MVK026	6	G2	V	4	3	-	S	Theory of Turbo Machinery		KS KE U W							
MMV042	9	A	V	4	3	X	E1	Numerical Heat Transfer		KS KE U W							
MVK140	7.5	A	V	4	3	X	E1	Turbulence Theory and Modelling	X	KS KE U W							
MVK051	7.5	A	V	4	3	X	S	Steam and Gas Turbine Engineering		KS KE U W							
MVK135	7.5	A	V	4	3	X	E	Turbulent Combustion		KS KE U W							
MVK150	6	A	V	4	3	X	E1	Applied Computational Fluid Mechanics (CFD), Basic Course		KS KE U W	28	34	0	0	75		
MVK160	9	A	V	4	3	X	E1	Heat and Mass Transfer		KS KE U W	21	14	0	20	75		

[MYK140](#) Turbulence ☒ Theory and Modelling: *Kursen är obligatorisk i fördjupning Värmeöverföring och strömningsteknik.*

Specialisation Ip - Logistics and Production Management

Course Code	Credits	Cycle	Mand./ Elect.		Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4				
												F	O	L	H	S
MIO040	6	G2	V	3	3	-	S	Managerial Economics, Advanced Course	X	KS KE U W						
MIO040									X							
MTT091	6	G2	V	3	3	-	S	Materials Handling		KS KE U W						
MTT240	7.5	A	V	3	3	-	S	Supply Chain Management		KS KE U W						
MMT045	7.5	A	V	3	3	-	S	Flexible Manufacturing Systems		KS KE U W	38	18	12	0	130	
MIO030	4.5	G2	V	3	3	-	S	Production and Inventory Control		KS KE U W	32	10	4	0	74	
MTTF05	5	G2	V	4	3	-	S	Factory Planning and Engineering		KS KE U W						
MTTN05	5	A	V	4	3	-	S	Process-based Business Development		KS KE U W						
MIO240	6	A	V	4	3	-	S	Simulation of Production Systems		KS KE U W						
MTT045	7.5	A	V	4	3	-	E2	International Physical Distribution		KS KE U W						
MTT032	4.5	G2	V	4	3	X	E2	Packaging Technology		KS KE U W						
MIO051	6	A	V	4	3	-	S	Production Management		KS KE U W						
MIO060	4.5	G2	V	4	3	-	S	Quality and Maintenance Management		KS KE U W						
MTT225	7.5	A	V	4	3	X	E2	Modelling of Packaging Systems		KS KE U W	7	21	0	0	12	
MTT115	7.5	A	V	4	3	-	S	Industrial Purchasing		KS KE U W	48	10	4	4	130	
MTT215	7.5	G2	V	4	3	X	E2	Packaging Logistics		KS KE U W	42	28	0	40	90	

[MIO040](#) Managerial Economics, Advanced Course: *Kursen ges två gånger per läsår. Kursomgången med start lp 3 för den som läser TM-avslutningen.*

Specialisation me - Mechatronics

Course Code	Credits	Cycle	Mand./ Elect.		Language			Links		Footnote	sp4				
			Year	From year	S.Ex. stud.	Course Name	Footnote	F	O		L	H	S		
EIE070	7.5	G2	V	3	3	X	E1	Mechatronics	X	KS KE U W	16	4	0	22	50
FRTN05	7.5	A	V	3	3	X	E1	Non-Linear Control and Servo Systems		KS KE U W	28	28	12	0	112
MMK140	4.5	A	V	4	3	X	E2	Computer Based Engineering, Design Analysis 1		KS KE U W					
EDA040	6	G2	V	4	3	X	E2	Concurrent Programming		KS KE U W					
MIE041	9	G2	V	4	3	X	E1	Measurement Systems for Control		KS KE U W					
EIE075	7.5	A	V	4	3	X	E1	Mechatronics, Advanced Course		KS KE U W					
EIE015	12	A	V	4	3	X	E1	Power Electronics - Devices, Converters, Control and Applications	X	KS KE U W					
FRTN01	10	A	V	4	3	X	E1	Real-Time Systems		KS KE U W					
MMT175	7.5	A	V	4	3	-	S	Composite Technology		KS KE U W					
MMK095	7.5	A	V	4	3	X	E2	Engineering Design Techniques		KS KE U W					
MMT200	7.5	A	V	4	3	X	E1	Construction of Mobile Robots		KS KE U W	10	5	0	20	55
EDA380	6	G2	V	4	3	X	E2	Design of Embedded Systems		KS KE U W	24	0	12	0	110

[EIE070](#) Mechatronics: *Tentamen (för högre betyg) efter överenskommelse.*

[EIE015](#) Power Electronics - Devices, Converters, Control and Applications: [EIE015](#) får inte ingå i examen tillsammans med någondera av [EIE023](#) Kraftelektronik eller [EIE042](#) Kraftelektronisk reglerteknik.

Specialisation mo - Computational Mechanics

Course Code	Credits	Cycle	Mand./ Elect.		Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4					
												F	O	L	H	S	
FHL034	7.5	A	V		3	3	X	E2	Dimensioning Problems, Advanced Course		KS KE U W						
FHL064	7.5	G2	V		3	3	X	E2	Finite Element Method, Advanced Course		KS KE U W	32	28	0	0	140	
FHL090	7.5	A	V		3	3	X	E2	Fracture Mechanics, Advanced Course		KS KE U W	28	28	0	0	144	
FHL072	7.5	A	V		4	3	-	E2	Constitutive Modelling of Materials, Advanced Course		KS KE U W						
FMEF01	8	G2	V		4	4	X	E2	Continuum Mechanics		KS KE U W						
FKM090	7.5	A	V		4	3	X	S	Fatigue		KS KE U W						
FHL066	7.5	A	V		4	3	-	E2	Finite Element Method for Non-linear Systems		KS KE U W						
EMEN01	8	A	V		4	3	X	E2	Multibody Dynamics		KS KE U W						
VSM051	6	A	V		4	3	-	S	Dynamics of Structure		KS KE U W						
FHL110	7.5	A	V		4	3	X	E	Biomechanics		KS KE U W	32	8	0	20	100	
FMEF05	8	G2	V		4	3	X	E2	Mechanical Vibrations		KS KE U W	42	14	0	0	155	

Specialisation pr - Production Engineering

Course Code	Credits	Cycle	Mand./ Elect.		Language			Links		Footnote	sp4				
			Year	From year	S.Ex. stud.	Course Name	Footnote	F	O		L	H	S		
MIE080	7.5	G2	V	3	3	X	E1	Automation	KS KE U W						
MTT091	6	G2	V	3	3	-	S	Materials Handling	KS KE U W						
MMT045	7.5	A	V	3	3	-	S	Flexible Manufacturing Systems	KS KE U W		38	18	12	0	130
MIO030	4.5	G2	V	3	3	-	S	Production and Inventory Control	KS KE U W		32	10	4	0	74
MMT031	7.5	A	V	4	3	-	S	Production Technology	KS KE U W						
MIO240	6	A	V	4	3	-	S	Simulation of Production Systems	KS KE U W						
MMT150	7.5	G2	V	4	3	X	E1	Robot Technology	KS KE U W						
MMT175	7.5	A	V	4	3	-	S	Composite Technology	KS KE U W						
FKM070	7.5	A	V	4	3	X	E1	Advanced Materials Technology	KS KE U W						
MIO051	6	A	V	4	3	-	S	Production Management	KS KE U W						
MIO060	4.5	G2	V	4	3	-	S	Quality and Maintenance Management	KS KE U W						
MIE090	7.5	A	V	4	3	X	E2	Automation for Complex Systems	KS KE U W		42	0	50	20	70

Specialisation pu - Product Development

Course Code	Credits	Cycle	Mand./ Elect.		Language			Links		Footnote	sp4					
			Year	From year	S.Ex. stud.	Course Name	Footnote	F	O			L	H	S		
FKM070	7.5	A	V	3	3	X	E1	Advanced Materials Technology	KS KE U W							
MMK040	9	G2	V	3	3	X	E2	Product Development and Design Methodology	KS KE U W		14	0	0	28	45	
MMK121	4.5	G2	V	3	3	X	S	Computer Aided Product Modelling and Simulation	KS KE U W		4	45	0	0	40	
FHL064	7.5	G2	V	3	3	X	E2	Finite Element Method, Advanced Course	KS KE U W		32	28	0	0	140	
MMK140	4.5	A	V	4	3	X	E2	Computer Based Engineering, Design Analysis 1	KS KE U W							
MMK145	4.5	A	V	4	3	X	E2	Computer Based Engineering, Design Analysis 2	KS KE U W							
FKM090	7.5	A	V	4	3	X	S	Fatigue	KS KE U W							
MME070	7.5	A	V	4	3	X	S	Transmissions, Dimensioning	KS KE U							
MMK095	7.5	A	V	4	3	X	E2	Engineering Design Techniques	KS KE U W							
MMK050	6	G2	V	4	3	-	S	Hydraulics and Pneumatics	KS KE U W							
FMEF05	8	G2	V	4	3	X	E2	Mechanical Vibrations	KS KE U W		42	14	0	0	155	
MME080	7.5	A	V	4	3	X	S	Transmissions, Dynamics	KS KE U		42	14	0	0	80	

Elective Courses - M

Course Code	Credits	Cycle		Language			Course Name	Footnote	Links								
		Year	From year	S.Ex. stud.	sp4												
											F	O	L	H	S		
FMSF01	3	G2	1	1	-	S	Mathematical Statistics	X	KS	KE	U						
FMSF01								X				0	0	8	0	30	
MIO040	6	G2	2	2	-	S	Managerial Economics, Advanced Course	X	KS	KE	U	W					
GEMA50	4.5	G1	2	1	-	S	History of Technology		KS	KE	U	W					
FKM070	7.5	A	2	2	X	E1	Advanced Materials Technology		KS	KE	U	W					
GEMA35	4.5	G1	2	1	-	S	Economics for Engineers		KS	KE	U	W					
GEMA40	7.5	G1	2	1	-	S	Entrepreneurship and Business Development		KS	KE	U	W					
FMA036	7.5	G2	2	2	-	S	Linear Analysis		KS	KE	U	W					
MIO040	6	G2	2	2	-	S	Managerial Economics, Advanced Course	X	KS	KE	U	W					
FMN081	7.5	G2	2	2	X	E1	Numerical Methods in Mechanics		KS	KE	U	W					
EDAA01	7.5	G1	2	2	-	S	Programming - Second Course		KS	KE	U	W					
MAM026	4.5	G1	2	2	-	S	Work Organization		KS	KE	U	W					
FMA062	7.5	G2	2	2	-	S	Applied Mathematics		KS	KE	U	W	28	14	0	0	58
MMT160	7.5	G2	2	2	-	S	Computer Aided Design/Computer Aided Manufacturing		KS	KE	U	W	14	28	0	2	55
GEMA01	7.5	G1	2	1	-		French for Engineers: Language, Culture and Society, First Course		KS	KE	U	W	0	26	0	0	60
GEMA45	3	G1	2	2	-	S	Teaching and Learning		KS	KE	U	W	0	2	0	2	40
MAM203	7.5	G1	2	2	-	S	Working Environment, Basic Course		KS	KE	U	W	0	0	0	30	65
FHL064	7.5	G2	2	2	X	E2	Finite Element Method, Advanced Course		KS	KE	U	W	32	28	0	0	140
MMT045	7.5	A	2	2	-	S	Flexible Manufacturing Systems		KS	KE	U	W	38	18	12	0	130
MIO022	6	G2	2	1	-	S	Management Organization		KS	KE	U	W	30	0	22	8	60
EDA150	3	G1	3	2	X	S	C Programming	X	KS	KE	U	W					
FMA037	6	G2	3	3	-	S	Complex Analysis		KS	KE	U	W					
GEMA30	4.5	G1	3	1	-	S	Swedish for Engineers	X	KS	KE	U	W					
GEMA20	7.5	G1	3	1	-	E	English for Engineers	X	KS	KE	U	W					
GEMA05	7.5	G1	3	1	-		French for Engineers: Language, Culture and Society, Second Course		KS	KE	U	W					
GEMA25	7.5	G1	3	1	-	S	German for Engineers		KS	KE	U	W					
GEMA60	7.5	G1	3	1	-	S	Law for Engineers, Introductory Course in Business Law	X	KS	KE	U	W					
GEMA10	7.5	G1	3	1	-		Spanish for Engineers: Language, Culture and Society, First Course		KS	KE	U	W					

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4				
										F	O	L	H	S
MTT045	7.5	A	3	3	-	E2	International Physical Distribution		KS KE U W					
MMK095	7.5	A	3	3	X	E2	Engineering Design Techniques		KS KE U W					
MIE080	7.5	G2	3	3	X	E1	Automation		KS KE U W					
MIO150	6	A	3	3	-	S	Business Marketing		KS KE U W					
EDA150	3	G1	3	2	X	S	C Programming	X	KS KE U W					
FHL034	7.5	A	3	3	X	E2	Dimensioning Problems, Advanced Course		KS KE U W					
MMV025	7.5	G2	3	2	-	S	Fluid Mechanics, Advanced Course		KS KE U W					
MVK093	6	G2	3	3	-	E1	Introduction to Combustion Engines		KS KE U W					
MTT091	6	G2	3	3	-	S	Materials Handling		KS KE U W					
MIO310	6	G2	3	2	-	S	Operations Research ☒ Basic Course		KS KE U W					
FKM065	7.5	A	3	3	X	S	Project - Materials Engineering		KS KE U W					
FMS045	6	G2	3	3	-	S	Stationary Stochastic Processes		KS KE U W					
GEMA30	4.5	G1	3	1	-	S	Swedish for Engineers	X	KS KE U W					
MIO090	6	A	3	3	-	S	Technology Strategy		KS KE U W					
GEMA65	7.5	G1	3	1	-	S	Chinese for Engineers		KS KE U	0	20	0	0	80
GEMA20	7.5	G1	3	1	-	E	English for Engineers	X	KS KE U W	20	0	0	0	30
MMK070	7.5	G2	3	3	X	E	Industrial Design		KS KE U W	14	28	0	0	42
GEMA60	7.5	G1	3	1	-	S	Law for Engineers, Introductory Course in Business Law	X	KS KE U W	25	0	0	0	75
MIO331	9	A	3	3	X	E	Management of Production and Inventory Systems		KS KE U W	0	10	0	32	78
FMA120	6	A	3	3	-	S	Matrix Theory		KS KE U W	8	8	0	0	40
EIE070	7.5	G2	3	3	X	E1	Mechatronics	X	KS KE U W	16	4	0	22	50
GEMA55	6	G1	3	1	-	S	Medicine for Engineers		KS KE U W	36	0	0	0	40
MMK040	9	G2	3	2	X	E2	Product Development and Design Methodology		KS KE U W	14	0	0	28	45
GEMA15	7.5	G1	3	1	-		Spanish for Engineers: Language, Culture and Society, Second Course		KS KE U	0	26	0	0	60
VTA060	9	G2	3	3	-	S	Structural Acoustics		KS KE U	14	14	14	0	88
MVK106	6	A	3	3	-	E1	Advanced Combustion Engine Technology		KS KE U W	28	28	20	0	55
FAF035	6	G2	3	3	-	S	Applied Atomic Physics		KS KE U W	30	14	10	0	100
FMA022	4.5	G2	3	3	-	S	Applied Mathematics		KS KE U W	28	14	4	0	74
MVK170	6	G2	3	3	-	S	Applied Thermodynamics		KS KE U W	28	28	0	0	85

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4				
										F	O	L	H	S
MMK121	4.5	G2	3	3	X	S	Computer Aided Product Modelling and Simulation		KS KE U W	4	45	0	0	40
MMV031	7.5	G2	3	3	X	E1	Heat Transfer		KS KE U W	42	38	0	14	106
KII010	7.5	G2	3	3	-	S	Industrial Environmental Management	X	KS KE U W	28	0	0	32	80
FMS180	6	G2	3	3	-	S	Markov Processes		KS KE U W	28	14	6	0	100
MIO030	4.5	G2	3	3	-	S	Production and Inventory Control		KS KE U W	32	10	4	0	74
MTT095	4.5	A	3	3	-	S	Project in Materials Handling and Work Organization	X	KS KE U W	6	0	0	10	100
VSM032	6	A	3	3	-	S	Software Development for Technical Applications		KS KE U W	8	28	0	0	130
FMS065	7.5	G2	3	3	-	E2	Statistical Methods for Safety Analysis		KS KE U W	28	14	12	0	120
FMN135	7.5	A	4	4	X	E1	Adaptive Methods for Differential Equations		KS KE U W					
MMT125	7.5	A	4	3	-	S	Applied FEM Ø project		KS KE U W					
MMK140	4.5	A	4	3	X	E2	Computer Based Engineering, Design Analysis 1		KS KE U W					
FHL072	7.5	A	4	3	-	E2	Constitutive Modelling of Materials, Advanced Course		KS KE U W					
EMEF01	8	G2	4	3	X	E2	Continuum Mechanics		KS KE U W					
MVK061	6	A	4	3	-	E1	Energy Utilisation		KS KE U W					
MTTF05	5	G2	4	3	-	S	Factory Planning and Engineering		KS KE U W					
EEM055	7.5	A	4	4	X	E2	Microfluidics		KS KE U W					
FMNN01	7.5	A	4	4	X	E	Numerical Linear Algebra		KS KE U W					
MTTN05	5	A	4	3	-	S	Process-based Business Development		KS KE U W					
MMT031	7.5	A	4	3	-	S	Production Technology		KS KE U W					
MVKN05	7.5	A	4	3	-	S	Project - Formula Student		KS KE U W					
EMEN05	7.5	A	4	4	-	S	Project - Engineering Mechanics		KS KE U W					
MMK150	7.5	A	4	3	X	E2	Project - Machine Design	X	KS KE U W					
FHL025	7.5	A	4	3	X	E1	Project - Solid Mechanics	X	KS KE U W					
MMT091	7.5	A	4	3	-	S	Project Ø Production and Materials Engineering		KS KE U W					
FAF240	7.5	G1	4	3	-	S	Quantum Phenomena and Nanotechnology		KS KE U W					
AEBN01	7.5	A	4	4	X	E1	Simulation Methods for Estimations of Energy Use in Buildings		KS KE U W					
MIO240	6	A	4	3	-	S	Simulation of Production Systems		KS KE U W					
FMN145	4.5	A	4	4	X	E1	Simulation Tools		KS KE U W					

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4				
										F	O	L	H	S
AEB010	7.5	G2	4	4	X	E1	Solar Heating Technology, Basic Course		KS KE U W					
MVK026	6	G2	4	3	-	S	Theory of Turbo Machinery		KS KE U W					
EDA040	6	G2	4	3	X	E2	Concurrent Programming		KS KE U W					
ETI125	4.5	G1	4	3	-	S	Consumer Electronics		KS KE U W					
GEMF01	7.5	G2	4	2	-	S	Environmental Science		KS KE U W					
MMK080	4.5	G1	4	3	X	E	Form and Colour		KS KE U W					
GEMF05	7.5	G2	4	2	-	S	Gender in Science and Engineering		KS KE U W					
MAM041	7.5	G2	4	3	-	S	Man-Machine-System		KS KE U W					
MIE041	9	G2	4	3	X	E1	Measurement Systems for Control		KS KE U W					
EIE075	7.5	A	4	4	X	E1	Mechatronics, Advanced Course		KS KE U W					
MMV042	9	A	4	3	X	E1	Numerical Heat Transfer		KS KE U W					
EIE015	12	A	4	4	X	E1	Power Electronics - Devices, Converters, Control and Applications	X	KS KE U W					
EIE061	7.5	A	4	3	X	E1	Project in Industrial Electrical Engineering and Automation	X	KS KE U W					
MMT155	7.5	A	4	3	X	E1	Project Ø robot technology		KS KE U W					
FRTN01	10	A	4	3	X	E1	Real-Time Systems		KS KE U W					
TNX097	7.5	G2	4	2	-	S	Rehabilitation Engineering	X	KS KE U W					
MMT150	7.5	G2	4	3	X	E1	Robot Technology		KS KE U W					
MAM032	7.5	A	4	3	-	S	Working Environment, Project		KS KE U W					
MMK101	15	A	4	3	X	E2	Product Development Project		KS KE U W	0	0	0	28	60
MAM242	7.5	G2	4	3	X	E1	Aerosol Technology		KS KE U W					
INN005	7.5	G2	4	3	X	E	Competition in the High-Tech Sectors		KS KE U W					
MMT175	7.5	A	4	3	-	S	Composite Technology		KS KE U W					
MMK145	4.5	A	4	3	X	E2	Computer Based Engineering, Design Analysis 2		KS KE U W					
EIE030	6	A	4	3	X	E1	Electric Power Systems		KS KE U W					
MVK071	6	A	4	3	-	E1	Energy Supply Systems		KS KE U W					
VTA030	4.5	A	4	3	-	S	Engineering Acoustics, Introductory Course		KS KE U					
VSM150	6	G2	4	3	-	S	Engineering Modelling: Analysis of Structures		KS KE U W					
FKM090	7.5	A	4	3	X	S	Fatigue		KS KE U W					
FHL066	7.5	A	4	3	-	E2	Finite Element Method for Non-linear Systems		KS KE U W					
MVK080	4.5	A	4	3	-	S	Fuel Gas Engineering		KS KE U W					
FAFN01	7.5	A	4	3	X	E	Lasers		KS KE U W					

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4				
										F	O	L	H	S
FMEN01	8	A	4	3	X	E2	Multibody Dynamics		KS KE U W					
MTT032	4.5	G2	4	3	X	E2	Packaging Technology		KS KE U W					
MMK150	7.5	A	4	3	X	E2	Project - Machine Design	X	KS KE U W					
FHL025	7.5	A	4	3	X	E1	Project - Solid Mechanics	X	KS KE U W					
MME070	7.5	A	4	3	X	S	Transmissions, Dimensioning		KS KE U					
MVK140	7.5	A	4	3	X	E1	Turbulence ☒ Theory and Modelling	X	KS KE U W					
MVK051	7.5	A	4	3	X	S	Steam and Gas Turbine Engineering		KS KE U W					
MMKN01	7.5	A	4	4	X	E1	Digital Plants		KS KE U W					
VSM051	6	A	4	3	-	S	Dynamics of Structure		KS KE U W					
MMK050	6	G2	4	3	-	S	Hydraulics and Pneumatics		KS KE U W					
MAMF05	7.5	G2	4	1	-	S	Management and Cooperation in Projects		KS KE U W					
AEB020	7.5	G2	4	4	X	E1	Photovoltaic Systems, Basic Course		KS KE U W					
MIO051	6	A	4	3	-	S	Production Management		KS KE U W					
MVK115	7.5	A	4	3	X	E1	Project - Energy Technology	X	KS KE U W					
MMK150	7.5	A	4	3	X	E2	Project - Machine Design	X	KS KE U W					
FHL025	7.5	A	4	3	X	E1	Project - Solid Mechanics	X	KS KE U W					
MIO060	4.5	G2	4	3	-	S	Quality and Maintenance Management		KS KE U W					
MTT240	7.5	A	4	3	-	S	Supply Chain Management		KS KE U W					
MVK135	7.5	A	4	3	X	E	Turbulent Combustion		KS KE U W					
MMT200	7.5	A	4	3	X	E1	Construction of Mobile Robots		KS KE U W	10	5	0	20	55
MMT015	7.5	A	4	3	-	S	Material and Process Selection		KS KE U W	0	14	0	10	75
MTT225	7.5	A	4	3	X	E2	Modelling of Packaging Systems		KS KE U W	7	21	0	0	12
EIE061	7.5	A	4	3	X	E1	Project in Industrial Electrical Engineering and Automation	X	KS KE U W	0	0	0	12	88
MVK120	7.5	A	4	3	-	E1	Project ☒ Energy Economics and Planning		KS KE U W	4	0	0	42	54
MVKN01	7.5	A	4	3	-	S	Projecting Thermal Power Plants		KS KE U W	14	35	0	0	40
MMK126	7.5	G2	4	3	X	E2	Rapid Prototyping in the Product Development Process		KS KE U W	14	28	0	0	40
MMT195	7.5	A	4	4	-	S	Recycling Technology		KS KE U W	12	10	8	20	50
TNX153	7.5	G2	4	2	-	S	Rehabilitation Engineering and Design		KS KE U W	18	0	0	12	108
MVK150	6	A	4	3	X	E1	Applied Computational Fluid Mechanics (CFD), Basic Course		KS KE U W	28	34	0	0	75
MIE090	7.5	A	4	3	X	E2	Automation for Complex Systems		KS KE U W	42	0	50	20	70

Course Code	Credits	Cycle		Language			Course Name	Footnote	Links								
		Year	From year	S.Ex. stud.	KS	KE			U	W	F	O	L	H	S		
FHL110	7.5	A	4	3	X	E	Biomechanics		KS	KE	U	W	32	8	0	20	100
EDA380	6	G2	4	3	X	E2	Design of Embedded Systems		KS	KE	U	W	24	0	12	0	110
MIO071	4.5	G2	4	3	-	S	Economics and Trade		KS	KE	U	W	42	0	4	0	74
FMI070	7.5	A	4	3	X	E2	Environmental Issues, Thematic Course		KS	KE	U	W	6	20	0	0	174
MAM085	7.5	G2	4	3	-	S	Ergonomics		KS	KE	U	W	26	26	0	16	132
FHL090	7.5	A	4	3	X	E2	Fracture Mechanics, Advanced Course		KS	KE	U	W	28	28	0	0	144
FBR012	7.5	G2	4	3	X	E1	Fundamental Combustion		KS	KE	U	W	22	10	8	60	100
MVK160	9	A	4	3	X	E1	Heat and Mass Transfer		KS	KE	U	W	21	14	0	20	75
MTT115	7.5	A	4	3	-	S	Industrial Purchasing		KS	KE	U	W	48	10	4	4	130
MTT070	9	A	4	3	X	E2	International Project Exportation		KS	KE	U	W	14	14	56	0	156
FMEF05	8	G2	4	3	X	E2	Mechanical Vibrations		KS	KE	U	W	42	14	0	0	155
MMT220	7.5	A	4	3	-	S	Metal Cutting, Advanced Course		KS	KE	U	W	28	28	0	12	100
FRTN05	7.5	A	4	2	X	E1	Non-Linear Control and Servo Systems		KS	KE	U	W	28	28	12	0	112
FMN110	7.5	A	4	3	X	E1	Numerical Methods in Multibody Dynamics		KS	KE	U	W	28	28	28	30	80
MTT215	7.5	G2	4	3	X	E2	Packaging Logistics		KS	KE	U	W	42	28	0	40	90
MMK150	7.5	A	4	3	X	E2	Project - Machine Design	X	KS	KE	U	W	0	0	0	60	60
FHL025	7.5	A	4	3	X	E1	Project - Solid Mechanics	X	KS	KE	U	W	0	0	0	60	60
FRT090	7.5	A	4	4	X	E1	Project in Automatic Control		KS	KE	U	W	0	0	0	50	150
MME080	7.5	A	4	3	X	S	Transmissions, Dynamics		KS	KE	U		42	14	0	0	80
FMS072	7.5	G2	4	3	X	E2	Design of Experiments	X	KS	KE	U	W	Course on hold				

[FMSF01](#) Mathematical Statistics: *Kursen kan endast ingå i TMALY (avkortad CIM). Kursen ges två gånger om året.*

[MIO040](#) Managerial Economics, Advanced Course: *Kursen ges två gånger per läsår. Kursomgången med start lp 3 för den som läser TM-avslutningen.*

[EDA150](#) C Programming: *Kursen ges två gånger per år, tentamen i varje ordinare period.*

[GEMA30](#) Swedish for Engineers: *Kursen ges två gånger per läsår.*

[GEMA20](#) English for Engineers: *Kursen ges två gånger per läsår.*

[GEMA60](#) Law for Engineers, Introductory Course in Business Law: *Kursen ges två gånger per läsår.*

[EIE070](#) Mechatronics: *Tentamen (för högre betyg) efter överenskommelse.*

[KII010](#) Industrial Environmental Management: *Tentamen enligt överenskommelse.*

[MTT095](#) Project in Materials Handling and Work Organization: *Kursen är obligatorisk i fördjupningen Logistik. OBS [MTT091](#) Materialhantering är inriktningsobligatorisk och läses i årskurs 3.*

[MMK150](#) Project - Machine Design: *Projekt kan starta i samtliga lp.*

[FHL025](#) Project - Solid Mechanics: *Kursstart enl ök med avdelningen.*

[EIE015](#) Power Electronics - Devices, Converters, Control and Applications: *EIE015 får inte ingå i examen tillsammans med någondera av [EIE023](#) Kraftelektronik eller [EIE042](#) Kraftelektronisk reglerteknik.*

[EIE061](#) Project in Industrial Electrical Engineering and Automation: *Kursen ges två gånger per år. Tentamen efter överenskommelse.*

[TNX097](#) Rehabilitation Engineering: *Nätburen kurs med träffar. Se www.certec.lth.se/ak/*

[MVK140](#) Turbulence & Theory and Modelling: *Kursen är obligatorisk i fördjupning Värmeöverföring och strömningsteknik.*

[MVK115](#) Project - Energy Technology: *Kursstart enl överenskommelse med kursansvarig.*

[FMS072](#) Design of Experiments: *Periodiserad. Ges nästa gång ht 2008.*

Degree Projects - M

The list contains the degree project courses that are included in the M programme.

Links

Course Code	Credits	Course Name	Links
MAM720	30	Degree Project in Aerosol Technology	U
FRT820	30	Degree Project in Automatic Control for Engineers	U
EDA920	30	Degree Project in Computer Sciences for Engineers	U W
MVK920	30	Degree Project in Energy Sciences	U
VTA820	30	Degree Project in Engineering Acoustics for Engineers	U
MTT820	30	Degree Project in Engineering Logistics	U
FKM820	30	Degree Project in Engineering Materials	U W
FMI820	30	Degree Project in Environmental Studies	U W
MAM920	30	Degree Project in Ergonomics for Engineers	U W
EIE920	30	Degree Project in Industrial Electrical Engineering and Automation	U
MMK820	30	Degree Project in Machine Design for Engineers	U
MME820	30	Degree Project in Machine Elements for Engineers	U
FMA820	30	Degree Project in Mathematics for Engineers	U
FME820	30	Degree Project in Mechanics for Engineers	U
FMN820	30	Degree Project in Numerical Analysis	U W
MTT920	30	Degree Project in Packaging Logistics	U
MMT820	30	Degree Project in Production and Materials Engineering	U
MIO920	30	Degree Project in Production Management	U W
TNS820	30	Degree Project in Rehabilitation Engineering	U W
MMT920	30	Degree Project in Robotics	U
FHL820	30	Degree Project in Solid Mechanics for Engineers	U W
VSM920	30	Degree Project in Structural Mechanics for Engineers	U
TMA820	30	Degree Project in Technology Management	U