

Mechanical Engineering

Study Year 1, Academic Year 2016/17 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	16/17	16/17	16/17	16/17
								sp1	sp2	sp3	sp4
MMK010	6	G1	-	S	Manual and Computer Aided Drafting		KS KE U W T	1			
MMTA02	6	G1	-	S	Introduction to Mechanical Engineering		KS KE U W T	1	2		
EMAA01	15	G1	-	S	Calculus in One Variable		KS KE U W T	1	2	3	
EMA420	6	G1	-	S	Linear Algebra		KS KE U W T		2		
EDA501	6	G1	-	S	Programming, First Course	X	KS KE U W T		2	3	4
MIOA01	9	G1	-	S	Managerial Economics, Basic Course		KS KE U W T			3	
FAF260	6	G1	-	S	Applied Optics and Waves		KS KE U W T				4

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links								
							16/17 sp1	16/17 sp2	16/17 sp3	16/17 sp4					
EMA430	6	G1	-	S	Calculus in Several Variables		KS	KE	U	W	T				4

[EDA501](#) Programming, First Course: *The course begins with a few lectures at the end of period 2, but the majority of the course is given in period 3 and 4.*

Study Year 2, Academic Year 2017/18 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	17/18	17/18	17/18	17/18
								sp1	sp2	sp3	sp4
EMEA30	15	G1	-	S	Engineering Mechanics		KS KE U W T	1	2		
MMVF01	11	G2	-	S	Thermodynamics and Fluid Mechanics		KS KE U W T	1	2		
MTTF01	5	G2	-	S	Logistics		KS KE U W T		2		
FKMA01	7.5	G1	X	E1	Materials Engineering, Basic Course		KS KE U W T			3	
FHLE15	15	G2	-	E1	Solid Mechanics, Basic Course		KS KE U W T			3	4
MMTF20	7.5	G2	-	S	Production and Manufacturing Methods		KS KE U W T				4

Study Year 3, Academic Year 2018/19 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	18/19	18/19	18/19	18/19
								sp1	sp2	sp3	sp4
MMEF05	7.5	G2	-	S	Transmissions		KS KE U W T	1			
EIEF35	9	G2	-	S	Electrical Engineering, Basic Course		KS KE U W T	1	2		
MVKF01	6	G2	-	S	Energy and the Environment in Sustainable Development		KS KE U W T	1	2		
ERTF05	7.5	G2	-	S	Automatic Control, Basic Course		KS KE U W T		2		
MMKF01	5	G2	-	E	Product Development and Design Methodology	X	KS KE U W T			3	
MMEF01	5	G2	-	S	Tribology		KS KE U W T			3	
FMSF55	7.5	G2	-	S	Mathematical Statistics, Basic Course		KS KE U W T				4

[MMKF01](#) Product Development and Design Methodology: *The date and time of the exam is announced by the course lecturer.*

Study Year 3, Academic Year 2018/19 (Elective Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	18/19			
								sp1	sp2	sp3	sp4
MMVF05	7.5	G2	X	E	Heat Transfer		KS KE U W T			3	
MIOF25	6	G2	-	S	Managerial Economics, Advanced Course		KS KE U W T			3	
EDAA01	7.5	G1	-	S	Programming - Second Course		KS KE U W T			3	
MAMF15	6	G2	-	S	Work Organization and Management		KS KE U W T			3	
MMTF25	7.5	G2	-	S	Computer Aided Design/Computer Aided Manufacturing		KS KE U W T				4
FHLE20	7.5	G2	X	E	Finite Element Method		KS KE U W T				4
MIOF20	6	G2	-	S	Management Organization		KS KE U W T				4

Specialisation bem - Computational Mechanics

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp1	sp2	sp3	sp4
FHLN05	7.5	A	V	4 - 19/20	3	X	E	Computational Inelasticity		KS KE U W T	1			
FMEN21	7.5	A	V	4 - 19/20	4	X	E	Continuum Mechanics		KS KE U W T	1			
FMEN30	7.5	A	V	4 - 19/20	3	X	E1	Fatigue		KS KE U W T	1			
FKMN20	7.5	A	V	4 - 19/20	3	X	E	Advanced Materials Technology		KS KE U W T		2		
FHLN20	7.5	A	V	4 - 19/20	3	X	E	Finite Element Method for Non-linear Systems		KS KE U W T		2		
FMEN11	7.5	A	V	4 - 19/20	3	X	E	Mechanical Vibrations		KS KE U W T		2		
FHLN10	7.5	A	V	4 - 19/20	3	X	E	Modern Experimental Mechanics		KS KE U W T		2		

Course Code	Credits	Cycle	Mand./ Elect.		Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links			
											sp1	sp2	sp3	sp4
MVKN90	7.5	A	V		4 - 19/20	3	X	E	Turbulence - Theory and Modelling	KS KE U W T		2		
MMVN01	7.5	A	V		4 - 19/20	3	-	S	Aerodynamics and Compressible Flow	KS KE U W T			3	
EMEN02	7.5	A	V		4 - 19/20	3	X	E	Multibody Dynamics	KS KE U W T			3	
FHLN01	7.5	A	V		4 - 19/20	3	X	E	Structural Optimization	KS KE U W T			3	
FHLN25	7.5	A	V		4 - 19/20	3	X	E	Fracture Mechanics, Advanced Course	KS KE U W T				4
MMVN05	7.5	A	V		4 - 19/20	3	X	E1	Numerical Fluid Dynamics and Heat Transfer	KS KE U T				4
MVKN70	7.5	A	V		5 - 20/21	4	X	E	Advanced Methods within Numerical Fluid Mechanics and Heat Transfer	KS KE U W T	1			

Specialisation en - Energy Technology

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links				
											sp1	sp2	sp3	sp4
EIEN15	7.5	A	V	4 - 19/20	3	X	E1	Electric Power Systems		KS KE U W T	1			
MVKN50	7.5	A	V	4 - 19/20	3	X	E1	Introduction to Combustion Engines		KS KE U W T	1			
MVKN65	7.5	A	V	4 - 19/20	3	X	E1	Power Plant Technology		KS KE U W T		2		
EIEN10	7.5	A	V	4 - 19/20	4	X	E1	Wind Power Systems		KS KE U W T		2		
MMVN01	7.5	A	V	4 - 19/20	3	-	S	Aerodynamics and Compressible Flow		KS KE U W T			3	
MVKN20	7.5	A	V	4 - 19/20	4	-	S	Energy Utilization		KS KE U W T			3	
MVKN60	7.5	A	V	4 - 19/20	3	X	E1	Theory of Turbo Machinery		KS KE U W T			3	

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links				
											sp1	sp2	sp3	sp4
MVKN15	7.5	A	V	4 - 19/20	4	-	S	Energy Supply Systems		KS KE U W T				4
MVKN75	7.5	A	V	4 - 19/20	3	X	E1	Steam and Gas Turbine Engineering		KS KE U W T				4
MVKP01	7.5	A	V	5 - 20/21	4	-	S	District Heating and Cooling		KS KE U W T	1			
MVKN95	7.5	A	V	5 - 20/21	4	X	E	Environmentally Friendly Power Generation		KS KE U W T	1			
MVKN30	7.5	A	V	5 - 20/21	5	-	S	Advanced Efficient Energy Systems		KS KE U W T	1	2		
MVKN01	7.5	A	V	5 - 20/21	4	-	E1	Projecting Thermal Power Plants		KS KE U W T	1	2		
MVKN35	6	A	V	5 - 20/21	4	-	S	Energy Markets		KS KE U W T		2		

Specialisation Ip - Logistics and Production Management

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links				
											sp1	sp2	sp3	sp4
MTTN40	7.5	A	V	4 - 19/20	4	X	E	Packaging Technology and Development		KS KE U W T	1			
MTTN25	7.5	A	V	4 - 19/20	3	X	E	Warehousing and Materials Handling		KS KE U W T	1			
MTTN75	7.5	A	V	4 - 19/20	4	X	E	Industrial Purchasing		KS KE U W T		2		
MTTN35	7.5	A	V	4 - 19/20	3	X	E	Packaging Logistics		KS KE U W T		2		
MIOF10	7.5	G2	V	4 - 19/20	3	X	E	Production and Inventory Control		KS KE U W T		2		
MTTN70	7.5	A	V	4 - 19/20	3	X	E	International Physical Distribution		KS KE U W T			3	
MION01	7.5	A	V	4 - 19/20	4	X	E	Management of Production and Inventory Systems		KS KE U W T			3	

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp1 sp2 sp3 sp4			
MTTN60	7.5	A	V	4 - 19/20	3	X	E	Business Process Management		KS KE U W T				4
MION45	7.5	A	V	4 - 19/20	3	X	E	Operations Strategy		KS KE U W T				4
MTTN80	7.5	A	V	4 - 19/20	4	X	E	Supply Chain Management		KS KE U W T				4
MION40	7.5	A	V	5 - 20/21	4	X	E1	Simulation of Industrial Processes and Logistic Systems		KS KE U W T	1			
MTTN20	7.5	A	V	5 - 20/21	4	X	E	Supply Chain Information Systems		KS KE U W T	1			
MION50	7.5	A	V	5 - 20/21	3	X	E	Quality Management		KS KE U W T		2		

Specialisation me - Mechatronics

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links				
											sp1	sp2	sp3	sp4
ERTF20	7.5	G2	V	4 - 19/20	3	X	E	Applied Robotics		KS KE U W T	1			
MMKN46	7.5	A	V	4 - 19/20	3	X	E1	Computer Based Engineering, Design Analysis 1		KS KE U W T	1			
EDAP10	7.5	A	V	4 - 19/20	3	-	S	Concurrent Programming	X	KS KE U W T	1			
EIEN45	10	A	V	4 - 19/20	4	X	E1	Applied Mechatronics		KS KE U W T	1	2		
MMKN55	7.5	A	V	4 - 19/20	3	-	S	Engineering Design Techniques		KS KE U W T		2		
FRTN05	7.5	A	V	4 - 19/20	3	X	E1	Non-Linear Control and Servo Systems		KS KE U W T		2		
FRTN40	7.5	A	V	4 - 19/20	3	X	E1	Project in Automatic Control		KS KE U W T		2		

Course Code	Credits	Cycle	Mand./ Elect.		Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links					
												sp1	sp2	sp3	sp4	
TNSN01	7.5	A	V		4 - 19/20	3	X	E1	Service Robotics		KS KE U W T		2			
EIEN01	10	A	V		4 - 19/20	4	X	E1	Mechatronics, Industrial Product Design		KS KE U W T			3	4	
EIEN25	15	A	V		4 - 19/20	4	X	E1	Power Electronics - Devices, Converters, Control and Applications	X	KS KE U W T			3	4	
FRTN01	10	A	V		4 - 19/20	3	X	E	Real-Time Systems		KS KE U W T			3	4	
EDAN15	7.5	A	V		4 - 19/20	3	X	E	Design of Embedded Systems		KS KE U W T					4
EIEF40	9	G2	V		4 - 19/20	4	X	E1	Measurement Systems for Control	X	KS KE U W T	Course on hold				

[EDAP10](#) Concurrent Programming: *Replaces [EDAF55](#)*

[EIEN25](#) Power Electronics - Devices, Converters, Control and Applications: *may not be included in a degree together with [ETEF10](#)*

[EIEF40](#) Measurement Systems for Control: *Exam date to be set by agreement. The course is offered every other academic year and will next be offered 2020/21.*

Specialisation prr - Product Realization

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links				
			V								sp1	sp2	sp3	sp4
ERTF20	7.5	G2	V	4 - 19/20	3	X	E	Applied Robotics		KS KE U W T	1			
MMTN30	7.5	A	V	4 - 19/20	3	X	E	Flexible Manufacturing Systems		KS KE U W T	1			
MMTN25	7.5	A	V	4 - 19/20	3	X	E	Production Technology		KS KE U W T	1			
MMTF15	7.5	G2	V	4 - 19/20	3	-	S	Workshop Practice		KS KE U T	1	2		
FKMN20	7.5	A	V	4 - 19/20	3	X	E	Advanced Materials Technology		KS KE U W T		2		
MMTN20	7.5	A	V	4 - 19/20	4	X	E	Material and Process Selection		KS KE U W T		2		
EIEF45	7.5	G2	V	4 - 19/20	3	X	E1	Automation		KS KE U W T			3	

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links			
										sp1	sp2	sp3	sp4
MMKN11	7.5	A	V	4 - 19/20	3	X	E	Design for X	KS KE U W T			3	4
MMTF15	7.5	G2	V	4 - 19/20	3	-	S	Workshop Practice	KS KE U T			3	4
EIEN35	7.5	A	V	4 - 19/20	3	X	E1	Automation for Complex Systems	KS KE U W T				4
MMTN05	7.5	A	V	4 - 19/20	4	X	E	Flexible Manufacturing Systems, Advanced Course	KS KE U W T				4
MION40	7.5	A	V	5 - 20/21	4	X	E1	Simulation of Industrial Processes and Logistic Systems	KS KE U W T	1			
MTTN75	7.5	A	V	5 - 20/21	4	X	E	Industrial Purchasing	KS KE U W T			2	
MMTN10	7.5	A	V	5 - 20/21	4	X	E1	International Product Realisation	KS KE U T			2	

Specialisation pu - Product Development

Course Code	Credits	Cycle	Mand./ Elect.		Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links			
											sp1	sp2	sp3	sp4
MMKN46	7.5	A	V		4 - 19/20	3	X	E1	Computer Based Engineering, Design Analysis 1	KS KE U W T	1			
EMEN30	7.5	A	V		4 - 19/20	3	X	E1	Fatigue	KS KE U W T	1			
MTTN40	7.5	A	V		4 - 19/20	4	X	E	Packaging Technology and Development	KS KE U W T	1			
MMKN35	7.5	A	V		4 - 19/20	4	X	E1	Product Innovation	KS KE U W T	1			
FKMN20	7.5	A	V		4 - 19/20	3	X	E	Advanced Materials Technology	KS KE U W T		2		
MMKN51	7.5	A	V		4 - 19/20	3	X	E1	Computer Based Engineering, Design Analysis 2	KS KE U W T		2		
MMKN55	7.5	A	V		4 - 19/20	3	-	S	Engineering Design Techniques	KS KE U W T		2		

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links						
										sp1	sp2	sp3	sp4			
MMKN21	7.5	A	V	4 - 19/20	3	X	E1	Design in Thermoplastic Materials		KS	KE	U	W	T	3	
FHLN01	7.5	A	V	4 - 19/20	3	X	E	Structural Optimization		KS	KE	U	W	T	3	
MMKN11	7.5	A	V	4 - 19/20	4	X	E	Design for X		KS	KE	U	W	T	3	4
MMKF30	7.5	G2	V	4 - 19/20	3	-	S	Hydraulics and Pneumatics		KS	KE	U	W	T	3	4
MMKN41	7.5	A	V	4 - 19/20	4	X	E	Design in Polymer Composite Materials		KS	KE	U	W	T		4
MMKF25	7.5	G2	V	4 - 19/20	3	X	E1	Surface Modelling, Rendering and 3D		KS	KE	U	W	T		4
MMEN05	7.5	A	V	4 - 19/20	3	X	S	Transmissions, Dynamics	X	KS	KE	U	W	T		4

[MMEN05](#) Transmissions, Dynamics: *The course is offered every other academic year and will be given in 2019/20, 2021/22.*

Specialisation tt - Transport Technology

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links				
			V								sp1	sp2	sp3	sp4
MVKN70	7.5	A	V	4 - 19/20	4	X	E	Advanced Methods within Numerical Fluid Mechanics and Heat Transfer		KS KE U T	1			
EHLN05	7.5	A	V	4 - 19/20	3	X	E	Computational Inelasticity		KS KE U W T	1			
MVKN50	7.5	A	V	4 - 19/20	3	X	E1	Introduction to Combustion Engines		KS KE U W T	1			
MVKF15	7.5	G2	V	4 - 19/20	3	X	E1	Introduction to Vehicle Systems		KS KE U W T	1			
MVKN55	7.5	A	V	4 - 19/20	3	X	E1	Advanced Combustion Engine Concepts		KS KE U W T		2		
MAMF55	7.5	G2	V	4 - 19/20	4	X	E1	Aerosol Technology		KS KE U W T		2		
MMEN01	7.5	A	V	4 - 19/20	3	X	S	Transmissions, Dimensioning	X	KS KE U W T		2		

Course Code	Credits	Cycle	Mand./ Elect.		Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links								
											sp1	sp2	sp3	sp4					
FHLN01	7.5	A	V		4 - 19/20	3	X	E	Structural Optimization		KS	KE	U	W	T	3			
EMIN20	7.5	A	V		4 - 19/20	4	-	S	Energy Systems Analysis: Renewable Sources of Energy		KS	KE	U	W	T	3			4
ERTN01	10	A	V		4 - 19/20	3	X	E	Real-Time Systems		KS	KE	U	W	T	3			4
MMKF25	7.5	G2	V		4 - 19/20	3	X	E1	Surface Modelling, Rendering and 3D		KS	KE	U	W	T				4
FKMN15	7.5	A	V		4 - 19/20	3	X	E	Light Materials	X	KS	KE	U	W	T	Course on hold			
EIEN41	7.5	A	V		5 - 20/21	3	X	E1	Electric and Electric Hybrid Vehicle Technology		KS	KE	U	W	T	1			

[MMEN01](#) Transmissions, Dimensioning: *The course is offered every other academic year and will be given in 2019/20.*

[FKMN15](#) Light Materials: *The course is offered every other academic year and will next be offered in 2020/21.*

Elective Courses - M

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp			
										sp1	sp2	sp3	sp4
EMSF25	2.5	G2	3 - 18/19	1	-	S	Mathematical Statistics - Complementary Project	X	KS KE U W T		2		
EMSF25								X					4
MMTN35	7.5	A	4 - 19/20	3	-	S	Applied FEM - Project		KS KE U W T	1			
BMEN05	7.5	A	4 - 19/20	3	X	E	Biomechanics	X	KS KE U W T	1			
EITG05	7.5	G2	4 - 19/20	4	X	E	Digital Communications		KS KE U W T	1			
IYT000	15	G2	4 - 19/20	3	-	S	Engineering Training Course		KS KE U W	1			
MION30	7.5	A	4 - 19/20	4	-	S	Industrial Management		KS KE U W T	1			

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links				
										sp1	sp2	sp3	sp4
EMAF01	7	G2	4 - 19/20	2	-	E1	Mathematics - Analytic Functions		KS KE U W T	1			
MIOE30	6	G2	4 - 19/20	3	-	S	Operations Research - Basic Course		KS KE U W T	1			
ERTN50	7.5	A	4 - 19/20	3	X	E	Optimization for Learning		KS KE U W T	1			
MMKN65	7.5	A	4 - 19/20	3	X	E1	Project - Machine Design	X	KS KE U W T	1			
MTEN01	7.5	A	4 - 19/20	4	X	E1	Project - Mechanical Engineering		KS KE U W T	1			
FHLN35	7.5	A	4 - 19/20	3	X	E1	Project in Solid Mechanics		KS KE U W T	1			
AEBE25	7.5	G2	4 - 19/20	4	X	E	Solar Heating Technology, Basic Course		KS KE U W T	1			

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links				
										sp1	sp2	sp3	sp4
EMSE10	7.5	G2	4 - 19/20	4	X	E	Stationary Stochastic Processes		KS KE U W T	1			
MION25	7.5	A	4 - 19/20	3	-	S	Technology Strategy		KS KE U W T	1			
MAMN20	7.5	A	4 - 19/20	4	X	E1	Aerosol Technology Project		KS KE U W T	1	2		
EIEN30	7.5	A	4 - 19/20	3	X	E1	Project in Industrial Electrical Engineering and Automation		KS KE U W T	1	2		
MMKF40	7.5	G2	4 - 19/20	3	X	E	Rapid Prototyping in the Product Development Process		KS KE U W T	1	2		
TNSF05	7.5	G2	4 - 19/20	4	-	S	Rehabilitation Engineering		KS KE U W T	1	2		
MVKP05	7.5	A	4 - 19/20	3	X	E1	Project - Formula Student		KS KE U W T	1	2	3	4

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links				
										sp1	sp2	sp3	sp4
MION05	7.5	A	4 - 19/20	3	-	S	Business Marketing		KS KE U W T		2		
IYT000	15	G2	4 - 19/20	3	-	S	Engineering Training Course		KS KE U W		2		
MTTN45	7.5	A	4 - 19/20	4	X	E	Humanitarian Logistics - disaster relief and logistics in developing countries		KS KE U W T		2		
MIOE15	7.5	G2	4 - 19/20	2	-	S	Marketing		KS KE U W T		2		
EMAE05	7	G2	4 - 19/20	2	-	E1	Mathematics - Systems and Transforms		KS KE U W T		2		
EMAN60	6	A	4 - 19/20	4	X	E1	Optimization		KS KE U W T		2		
MMKN65	7.5	A	4 - 19/20	3	X	E1	Project - Machine Design	X	KS KE U W T		2		

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links				
										sp1	sp2	sp3	sp4
FHLN35	7.5	A	4 - 19/20	3	X	E1	Project in Solid Mechanics	KS KE U W T		2			
MION20	7.5	A	4 - 19/20	4	-	S	Applied Business Analysis	KS KE U W T				3	
EMAF10	5	G2	4 - 19/20	3	-	S	Applied Mathematics - Linear systems	KS KE U W T				3	
IYT000	15	G2	4 - 19/20	3	-	S	Engineering Training Course	KS KE U W				3	
EMAF01	7	G2	4 - 19/20	2	-	E1	Mathematics - Analytic Functions	KS KE U W T				3	
MMTN40	7.5	A	4 - 19/20	3	-	E1	Metal Cutting, Advanced Course	KS KE U W T				3	
ETIA10	7.5	G1	4 - 19/20	3	X	E	Patent and Intellectual Property Rights	KS KE U W T				3	

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links					
									sp1	sp2	sp3	sp4		
AEBF30	7.5	G2	4 - 19/20	4	X	E	Photovoltaic Systems, Basic Course		KS	KE	U	W	T	3
MMTN45	7.5	A	4 - 19/20	4	X	E	Production Technology 2		KS	KE	U	W	T	3
MVKN80	7.5	A	4 - 19/20	3	X	E1	Project - Energy Technology	X	KS	KE	U	W	T	3
MMKN65	7.5	A	4 - 19/20	3	X	E1	Project - Machine Design	X	KS	KE	U	W	T	3
FHLN35	7.5	A	4 - 19/20	3	X	E1	Project in Solid Mechanics		KS	KE	U	W	T	3
VSMN10	7.5	A	4 - 19/20	4	X	E1	Structural Dynamic Computing		KS	KE	U	W	T	3
MVKN85	7.5	A	4 - 19/20	3	X	E	Turbulent Combustion	X	KS	KE	U	W	T	3

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links						
									sp1	sp2	sp3	sp4			
MAMN20	7.5	A	4 - 19/20	4	X	E1	Aerosol Technology Project		KS	KE	U	W	T	3	4
EMAN55	7.5	A	4 - 19/20	3	-	S	Applied Mathematics		KS	KE	U	W	T	3	4
EDAE50	7.5	G2	4 - 19/20	4	X	S	C++ Programming		KS	KE	U	W	T	3	4
EIEN20	7.5	A	4 - 19/20	3	X	E1	Design of Electrical Machines	X	KS	KE	U	W	T	3	4
MMKF35	7.5	G2	4 - 19/20	3	X	E	Industrial Design		KS	KE	U	W	T	3	4
EIEN30	7.5	A	4 - 19/20	3	X	E1	Project in Industrial Electrical Engineering and Automation		KS	KE	U	W	T	3	4
TNSF10	7.5	G2	4 - 19/20	4	X	E1	Universal Design, Theory and Project		KS	KE	U	W	T	3	4

Course Code	Credits	Cycle		From year	S.Ex. stud.	Language	Course Name	Footnote	Links								
		Year							sp1	sp2	sp3	sp4					
MAMF21	7.5	G2	4 - 19/20	4	-	S	Working Environment, Occupational Health and Safety		KS	KE	U	W	T			3	4
EDAA25	3	G1	4 - 19/20	3	X	S	C Programming		KS	KE	U	W	T				4
IYT000	15	G2	4 - 19/20	3	-	S	Engineering Training Course		KS	KE	U	W	T				4
FBRF01	7.5	G2	4 - 19/20	3	X	E	Fundamental Combustion		KS	KE	U	W	T				4
FKMN10	7.5	A	4 - 19/20	3	X	E	High Temperature Materials	X	KS	KE	U	W	T				4
MVKE25	7.5	G2	4 - 19/20	3	X	E1	Hydrogen, Batteries and Fuel Cells		KS	KE	U	T					4
EMAF05	7	G2	4 - 19/20	2	-	E1	Mathematics - Systems and Transforms		KS	KE	U	W	T				4

Course Code	Credits	Cycle	Language			S.Ex. stud.	Course Name	Footnote	Links					
			Year	From year					sp1	sp2	sp3	sp4		
EMEN25	7.5	A	4 - 19/20	4	X	E1	Nano Mechanics and Multiscale Modelling	X	KS	KE	U	W	T	4
EMNF10	6	G2	4 - 19/20	4	X	E1	Numerical Analysis		KS	KE	U	W	T	4
MMKN65	7.5	A	4 - 19/20	3	X	E1	Project - Machine Design	X	KS	KE	U	W	T	4
MIOF05	2	G2	4 - 19/20	3	-	S	Project in Managerial Economics, Advanced Course		KS	KE	U	W	T	4
FHLN35	7.5	A	4 - 19/20	3	X	E1	Project in Solid Mechanics		KS	KE	U	W	T	4
EITN95	7.5	A	4 - 19/20	4	X	E1	Simulation		KS	KE	U	W	T	4
VSMN20	7.5	A	4 - 19/20	4	X	E1	Software Development for Technical Applications		KS	KE	U	W	T	4
FKMN05	7.5	A	4 - 19/20	3	X	E	Powder Technology	X	KS	KE	U	W	T	Course on hold

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links				
										sp1	sp2	sp3	sp4
MMTN15	7.5	A	5 - 20/21	4	X	E1	Project - Production and Materials Engineering	X	KS KE U W T	1			
MTTN85	7.5	A	5 - 20/21	5	X	E	Project Management and Research Methodologies in Supply Chain Management		KS KE U T	1	2		
MTTN56	7.5	A	5 - 20/21	4	X	E	Packaging Material Science		KS KE U W T		2		
MMTN15	7.5	A	5 - 20/21	4	X	E1	Project - Production and Materials Engineering	X	KS KE U W T		2		
MMTN15								X				3	
MMTN15								X					4

[FMSE25](#) Mathematical Statistics - Complementary Project: *Only one of the courses [FMSE25](#) and [FMSE55](#) may be included in a degree.*

[BMEN05](#) Biomechanics: *Replaces the course [FHLE05](#).*

[MMKN65](#) Project - Machine Design: *The course is not linked to any specific study period. The information on hours depends on the course running over one study period.*

[MVKN80](#) Project - Energy Technology: *The course start is decided by the department.*

[MVKN85](#) Turbulent Combustion: *The course is offered every other academic year and will be given in 2019/20, 2021/22.*

[EIEN20](#) Design of Electrical Machines: *The course is offered every other academic year and will be given in 2019/20, 2021/22.*

[FKMN10](#) High Temperature Materials: *The course is offered every other academic year and will be given in 2019/20, 2021/22.*

[FMEN25](#) Nano Mechanics and Multiscale Modelling: *The course is offered every other academic year and will be given in 2019/20, 2021/22.*

[FKMN05](#) Powder Technology: *The course is offered every other academic year and will next be offered 2020/21.*

[MMTN15](#) Project - Production and Materials Engineering: *The course start is decided by the department.*

Externally Elective Courses - M

Course Code	Credits	Cycle	Language			S.Ex. stud.	Course Name	Footnote	Links	sp1 sp2 sp3 sp4			
			Year	From year						sp1	sp2	sp3	sp4
GEMA20	7.5	G1	4 - 19/20	1	-	E	English for Engineers	X	KS KE U W T	1	2		
GEMA25	7.5	G1	4 - 19/20	1	-	S	German for Engineers	X	KS KE U W T	1	2		
GEMA70	15	G1	4 - 19/20	1	-	S	Japanese for Engineers	X	KS KE U W T	1	2		
GEMA65	7.5	G1	4 - 19/20	1	-	S	Chinese for Engineers	X	KS KE U W T			3	4
GEMA20	7.5	G1	4 - 19/20	1	-	E	English for Engineers	X	KS KE U W T			3	4
GEMA01	7.5	G1	4 - 19/20	1	-	S	French for Engineers: Language, Culture and Society, First Course	X	KS KE U W T			3	4

[GEMA20](#) English for Engineers: *LTH common courses (courses where the course code begins with GEM) counts as external elective courses in the degree requirements for students admitted autumn 2011 and later.*

[GEMA25](#) German for Engineers: *LTH common courses (courses where the course code begins with GEM) counts as external elective courses in the degree requirements for students admitted autumn 2011 and later.*

[GEMA70](#) Japanese for Engineers: *LTH common courses (courses where the course code begins with GEM) counts as external elective courses in the degree requirements for students admitted autumn 2011 and later.*

[GEMA65](#) Chinese for Engineers: *LTH common courses (courses where the course code begins with GEM) counts as external elective courses in the degree requirements for students admitted autumn 2011 and later.*

[GEMA01](#) French for Engineers: Language, Culture and Society, First Course: *LTH common courses (courses where the course code begins with GEM) counts as external elective courses in the degree requirements for students admitted autumn 2011 and later.*

Bachelor's Projects - M

The list contains the bachelor's projects that are included in the M programme.

Links

Course Code	Credits	Course Name	Links
MVKL01	15	Bachelor Project in Energy Sciences	KS KE U W
FKML01	15	Bachelor Project in Engineering Materials	KS KE U
FMEL01	15	Bachelor Project in Mechanics	KS KE U
MTTL05	15	Bachelor Project in Packaging Logistics	KS KE U W
MMTL02	15	Bachelor Project in Production and Materials Engineering	KS KE U W
FHLL01	15	Bachelor Project in Solid Mechanics	KS KE U

Degree Projects - M

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

Links

Course Code	Credits	Course Name	Links
MAMM05	30	Degree Project in Aerosol Technology	KS KE U W
FRTM01	30	Degree Project in Automatic Control	KS KE U W
EDAM05	30	Degree Project in Computer Sciences for Engineers	KS KE U W
MVKM01	30	Degree Project in Energy Sciences	KS KE U W
MTTM05	30	Degree Project in Engineering Logistics	KS KE U W
FKMM01	30	Degree Project in Engineering Materials	KS KE U W
FMIM01	30	Degree Project in Environmental Studies	KS KE U W
MAMM10	30	Degree Project in Ergonomics	KS KE U W
EIEM01	30	Degree Project in Industrial Electrical Engineering and Automation	KS KE U W
MAMM01	30	Degree Project in Interaction Design	KS KE U W
MMEM01	30	Degree Project in Machine Elements	KS KE U
FMAM05	30	Degree Project in Mathematics for Engineers	KS KE U
FMEM01	30	Degree Project in Mechanics for Engineers	KS KE U W
MTTM10	30	Degree Project in Packaging Logistics	KS KE U W
MMKM05	30	Degree Project in Product Development	KS KE U W
MMTM01	30	Degree Project in Production and Materials Engineering	KS KE U W
MIOM05	30	Degree Project in Production Management	KS KE U W
TNSM01	30	Degree Project in Rehabilitation Engineering	KS KE U W
FHLM01	30	Degree Project in Solid Mechanics for Engineers	KS KE U W
VSMM05	30	Degree Project in Structural Mechanics	KS KE U