Mechanical Engineering

Study Year 1 (Mandatory Courses)

Course Code	Credits	Cycle	Language S.Ex. stud.	Language	Course Name	Footnote	Links	17/18 sp1	17/18 sp2	17/18 sp3	17/18 sp4
MMKA25	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		
FMAA01	15	G1	-	S	Calculus in One Variable		KS KE U W T	1	2	3	
FMAB20	6	G1	-	S	Linear Algebra		KS KE U W T		2		
EDAA65	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	
FAFA80	6	G1	-	S	Applied Optics and Waves		KS KE U W T				4

Course Code	Credits	Cycle	Language S.Ex. stud.		Course Name	Footnote	Links		17/18 sp1	17/18 sp2	17/18 sp3	17/18 sp4
FMAB30	6	G1	-	S	Calculus in Several Variables		KS KE U W T					4

EDAA65 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 (Mandatory Courses)

Course Code	Credits	Cycle	Language S.Ex. stud.		Course Name	Footnote	Links	17/18 sp1	17/18 sp2	17/18 sp3	17/18 sp4
FMEA30	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	
FHLF15	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 (Mandatory Courses)

Course Code	Credits	Cycle	Language S.Ex. stud.	Language	Course Name	Footnote	Links	17/18 sp1	17/18 sp2	17/18 sp3	17/18 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	X	S	Energy and the Environment in Sustainable Development		KS KE U W T	1	2		
FRTF05	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 (Elective Mandatory Courses)

Course Code	Credits	Cycle	Language S.Ex. stud.		Course Name	Footnote	Links			17/18 sp3	17/18 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
FHLF20	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	3	-	S	Computational Inelasticity		KS KE U W T	1			
FMEN21	7.5	A	V	4	3	X	E	Continuum Mechanics		KS KE U W T	1			
FMEN30	7.5	A	V	4	3	X	E1	Fatigue		KS KE U W T	1			
FKMN20	7.5	A	V	4	3	X	E1	Advanced Materials Technology		KS KE U W T		2		
FHLN20	7.5	A	V	4	3	X	S	Finite Element Method for Non-linear Systems		KS KE U W T		2		
FMEN11	7.5	A	V	4	3	X	E	Mechanical Vibrations		KS KE U W T		2		
FHLN10	7.5	A	V	4	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	3	X	E	Turbulence - Theory and Modelling		KS KE U W T			2		
MMVN01	7.5	A	V	4	3	-	S	Aerodynamics and Compressible Flow		KS KE U W T				3	
FMEN02	7.5	A	V	4	3	X	E	Multibody Dynamics		KS KE U W T				3	
FHLN01	7.5	A	V	4	3	X	E	Structural Optimization		KS KE U W T				3	
FHLN25	7.5	A	V	4	3	X	E	Fracture Mechanics, Advanced Course		KS KE U W T					4
MMVN05	7.5	A	V	4	4	X	E1	Numerical Fluid Dynamics and Heat Transfer		KS KE U T					4
MVKN70	7.5	A	V	5	4	X	E	Advanced Methods within Numerical Fluid Mechanics and Heat Transfer		KS KE U 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	3	X	E1	Electric Power Systems		KS KE U W T	1			
MVKN25	3	A	V	4	4	X	E1	Environmentally Friendly Power Generation		KS KE U W T	1			
MVKN50	7.5	A	V	4	3	X	E1	Introduction to Combustion Engines		KS KE U W T	1			
MVKN65	7.5	A	V	4	3	X	E1	Power Plant Technology		KS KE U W T		2		
EIEN10	7.5	A	V	4	4	X	E1	Wind Power Systems		KS KE U W T		2		
MMVN01	7.5	A	V	4	3	-	S	Aerodynamics and Compressible Flow		KS KE U W T			3	
MVKN20	7.5	A	V	4	4	-	S	Energy Utilization		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
MVKN60	7.5	A	V	4	3	X	E1	Theory of Turbo Machinery		KS KE U W T			3	
MVKN15	7.5	A	V	4	4	-	S	Energy Supply Systems		KS KE U W T				4
MVKN75	7.5	A	V	4	3	X	E1	Steam and Gas Turbine Engineering		KS KE U W T				4
MVKN40	5	A	V	5	4	X	S	District Heating and Cooling		KS KE U W T	1			
MVKN30	7.5	A	V	5	5	-	S	Advanced Efficient Energy Systems		KS KE U W T	1	2		
MVKN01	7.5	A	V	5	4	-	E1	Projecting Thermal Power Plants		KS KE U W T	1	2		
MVKN35	6	A	V	5	4	-	S	Energy Markets		KS KE U W T		2		

Specialisation lp - 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	3	X	E	Packaging Technology and Development		KS KE U W T	1			
MTTN25	7.5	A	V	4	3	X	E	Warehousing and Materials Handling		KS KE U W T	1			
MTTN75	7.5	A	V	4	4	X	E	Industrial Purchasing		KS KE U W T		2		
MTTN35	7.5	A	V	4	3	X	E	Packaging Logistics		KS KE U W T		2		
MIOF10	7.5	G2	V	4	3	X	E	Production and Inventory Control		KS KE U W T		2		
MTTN70	7.5	A	V	4	3	X	E	International Physical Distribution		KS KE U W T			3	
MION01	7.5	A	V	4	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	3	X	E	Business Process Management		KS KE U W T				4
MION45	7.5	A	V	4	3	X	E	Operations Strategy		KS KE U W T				4
MTTN80	7.5	A	V	4	4	X	E	Supply Chain Management		KS KE U W T				4
MION40	7.5	A	V	5	4	X	E1	Simulation of Industrial Processes and Logistic Systems		KS KE U W T	1			
MTTN20	7.5	A	V	5	4	X	E	Supply Chain Information Systems		KS KE U W T	1			
MION50	7.5	A	V	5	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
MMKF15	7.5	G2	V	4	3	X	E	Applied Robotics		KS KE U W T	1			
MMKN46	7.5	A	V	4	3	X	E1	Computer Based Engineering, Design Analysis 1		KS KE U W T	1			
EIEF01	10	G2	V	4	4	X	E1	Applied Mechatronics		KS KE U W T	1	2		
EDAF55	6	G2	V	4	3	X	E1	Concurrent Programming		KS KE U W T	1	2		
MMKN55	7.5	A	V	4	3	-	S	Engineering Design Techniques		KS KE U W T		2		
FRTN05	7.5	A	V	4	3	X	E1	Non-Linear Control and Servo Systems		KS KE U W T		2		
FRTN40	7.5	A	V	4	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
MMKN30	7.5	A	V	4	3	X	E1	Service Robotics		KS KE U W T			2		
EIEN01	10	A	V	4	4	X	E1	Mechatronics, Industrial Product Design		KS KE U W T				3	4
EIEN25	15	A	V	4	4	X	E1	Power Electronics - Devices, Converters, Control and Applications	X	KS KE U W T				3	4
FRTN01	10	A	V	4	3	X	E	Real-Time Systems		KS KE U W T				3	4
EDAN15	7.5	A	V	4	3	X	E	Design of Embedded Systems		KS KE U W T					4
EIEF40	9	G2	V	4	4	X	E1	Measurement Systems for Control	X	KS KE U W T		Course on hold			

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 in 2018/19.*

Specialisation prr - Product Realization

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp1	sp2	sp3	sp4
MMKF15	7.5	G2	V	4	3	X	E	Applied Robotics		KS KE U W T	1			
MMKN11	7.5	A	V	4	3	X	E	Design for X		KS KE U W T	1			
MMTN20	7.5	A	V	4	4	-	S	Material and Process Selection		KS KE U W T	1			
MMTN25	7.5	A	V	4	3	-	S	Production Technology		KS KE U W T	1			
MMTF15	7.5	G2	V	4	3	-	S	Workshop Practice		KS KE U T	1	2		
FKMN20	7.5	A	V	4	3	X	E1	Advanced Materials Technology		KS KE U W T		2		
EIEF45	7.5	G2	V	4	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
MMTN30	7.5	A	V	4	3	-	S	Flexible Manufacturing Systems		KS KE U W T			3	
MMTF15	7.5	G2	V	4	3	-	S	Workshop Practice		KS KE U T			3	4
EIEN35	7.5	A	V	4	3	X	E1	Automation for Complex Systems		KS KE U W T				4
MMTN05	7.5	A	V	4	4	-	S	Flexible Manufacturing Systems, Advanced Course		KS KE U W T				4
MION40	7.5	A	V	5	4	X	E1	Simulation of Industrial Processes and Logistic Systems		KS KE U W T	1			
MTTN75	7.5	A	V	5	4	X	E	Industrial Purchasing		KS KE U W T		2		
MMTN10	7.5	A	V	5	4	-	S	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	3	X	E1	Computer Based Engineering, Design Analysis 1		KS KE U W T	1			
MMKN11	7.5	A	V	4	4	X	E	Design for X		KS KE U W T	1			
FMEN30	7.5	A	V	4	3	X	E1	Fatigue		KS KE U W T	1			
MTTN40	7.5	A	V	4	3	X	E	Packaging Technology and Development		KS KE U W T	1			
MMKN35	7.5	A	V	4	4	X	E1	Product Innovation		KS KE U W T	1			
FKMN20	7.5	A	V	4	3	X	E1	Advanced Materials Technology		KS KE U W T		2		
MMKN51	7.5	A	V	4	3	X	E1	Computer Based Engineering, Design Analysis 2		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
MMKN55	7.5	A	V	4	3	-	S	Engineering Design Techniques		KS KE U W T		2		
MMKN21	7.5	A	V	4	3	X	E1	Design in Thermoplastic Materials		KS KE U W T			3	
MMKF30	7.5	G2	V	4	3	-	S	Hydraulics and Pneumatics		KS KE U W T			3	
FHLN01	7.5	A	V	4	3	X	E	Structural Optimization		KS KE U W T			3	
MMKN41	7.5	A	V	4	4	X	E	Design in Polymer Composite Materials		KS KE U W T				4
MMKF25	7.5	G2	V	4	3	X	E1	Surface Modelling, Rendering and 3D		KS KE U W T				4
MMEN05	7.5	A	V	4	3	X	S	Transmissions, Dynamics	X	KS KE U W T	**Course on hold**			

MMEN05 Transmissions, Dynamics: *The course is offered every other academic year and will next be offered in 2018/19.*

Specialisation tt - Transport Technology

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp1	sp2	sp3	sp4
MVKN70	7.5	A	V	4	4	X	E	Advanced Methods within Numerical Fluid Mechanics and Heat Transfer		KS KE U T	1			
FHLN05	7.5	A	V	4	3	-	S	Computational Inelasticity		KS KE U W T	1			
MVKN50	7.5	A	V	4	3	X	E1	Introduction to Combustion Engines		KS KE U W T	1			
MVKF15	7.5	G2	V	4	3	X	E1	Introduction to Vehicle Systems		KS KE U W T	1			
MVKN55	7.5	A	V	4	3	X	E1	Advanced Combustion Engine Concepts		KS KE U W T		2		
MAMF55	7.5	G2	V	4	4	X	E1	Aerosol Technology		KS KE U W T		2		
FHLN01	7.5	A	V	4	3	X	E	Structural Optimization		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
FMIN20	7.5	A	V	4	4	-	S	Energy Systems Analysis: Renewable Sources of Energy		KS KE U W T			3	4
FRTN01	10	A	V	4	3	X	E	Real-Time Systems		KS KE U W T			3	4
MMKF25	7.5	G2	V	4	3	X	E1	Surface Modelling, Rendering and 3D		KS KE U W T				4
EIEN40	7.5	A	V	5	3	X	E1	Hybrid Vehicle Drive Systems		KS KE U W T	1			
MMEN01	7.5	A	V	4	3	X	S	Transmissions, Dimensioning	X	KS KE U W T	Course on hold			
FKMN15	7.5	A	V	4	3	-	E1	Light Materials	X	KS KE U W T	Course on hold			

MMEN01 Transmissions, Dimensioning: *The course is offered every other academic year and will next be offered in 2018/19.*
FKMN15 Light Materials: *The course is offered every other academic year and will next be offered in 2018/19.*

Elective Courses - M

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links		sp1	sp2	sp3	sp4
FMSF25	2.5	G2	3	1	-	S	Mathematical Statistics - Complementary Project	X	KS KE U W T			2		
FMSF25								X						4
MAMN20	7.5	A	4	4	X	E1	Aerosol Technology Project		KS KE U W T		1			
MMTN35	7.5	A	4	3	-	S	Applied FEM - Project		KS KE U W T		1			
BMEN05	7.5	A	4	3	X	E	Biomechanics	X	KS KE U W T		1			
EDAA25	3	G1	4	3	X	S	C Programming		KS KE U W T		1			
EITG05	7.5	G2	4	4	X	E	Digital Communications		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
IYT000	15	G2	4	3	-	S	Engineering Training Course		KS KE U W		1			
MION30	7.5	A	4	4	-	S	Industrial Management		KS KE U W T		1			
FMSF15	7.5	G2	4	4	X	E1	Markov Processes		KS KE U W T		1			
FMAF01	7	G2	4	2	-	E1	Mathematics - Analytic Functions		KS KE U W T		1			
MIOF30	6	G2	4	3	-	S	Operations Research – Basic Course		KS KE U W T		1			
MMKN65	7.5	A	4	3	X	E1	Project - Machine Design	X	KS KE U W T		1			
MTEN01	7.5	A	4	4	-	S	Project - Mechanical Engineering		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
AEBF25	7.5	G2	4	4	X	E	Solar Heating Technology, Basic Course		KS KE U W T	1			
FMSF10	7.5	G2	4	4	X	E1	Stationary Stochastic Processes		KS KE U W T	1			
MION25	7.5	A	4	3	-	S	Technology Strategy		KS KE U W T	1			
MTTN55	7.5	A	4	3	X	E	Applied Logistics Simulation		KS KE U W T	1	2		
EIEN30	7.5	A	4	3	X	E1	Project in Industrial Electrical Engineering and Automation		KS KE U W T	1	2		
TNSF05	7.5	G2	4	4	-	S	Rehabilitation Engineering		KS KE U W T	1	2		
MVKN05	7.5	A	4	3	-	S	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
MAMN20	7.5	A	4	4	X	E1	Aerosol Technology Project		KS KE U W T			2		
MION05	7.5	A	4	3	-	S	Business Marketing		KS KE U W T			2		
IYT000	15	G2	4	3	-	S	Engineering Training Course		KS KE U W			2		
MTTN45	7.5	A	4	4	X	E	Humanitarian Logistics - disaster relief and logistics in developing countries		KS KE U W T			2		
MIOF15	7.5	G2	4	2	-	S	Marketing		KS KE U W T			2		
FMAF05	7	G2	4	2	-	E1	Mathematics - Systems and Transforms		KS KE U W T			2		
FMAN60	6	A	4	4	X	E1	Optimization	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
MMKN65	7.5	A	4	3	X	E1	Project - Machine Design	X	KS KE U W T			2		
MION20	7.5	A	4	4	-	S	Applied Business Analysis		KS KE U W T				3	
FMAF10	5	G2	4	3	-	S	Applied Mathematics - Linear systems		KS KE U W T				3	
IYT000	15	G2	4	3	-	S	Engineering Training Course		KS KE U W				3	
FMAF01	7	G2	4	2	-	E1	Mathematics - Analytic Functions		KS KE U W T				3	
ETIA10	7.5	G1	4	3	X	E	Patent and Intellectual Property Rights		KS KE U W T				3	
AEBF30	7.5	G2	4	4	X	E	Photovoltaic Systems, Basic Course		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
MVKN80	7.5	A	4	3	X	E1	Project - Energy Technology	X	KS KE U W T				3	
MMKN65	7.5	A	4	3	X	E1	Project - Machine Design	X	KS KE U W T				3	
MVKN85	7.5	A	4	3	X	E	Turbulent Combustion	X	KS KE U W T				3	
MAMN20	7.5	A	4	4	X	E1	Aerosol Technology Project		KS KE U W T				3	4
FMAN55	7.5	A	4	3	-	S	Applied Mathematics		KS KE U W T				3	4
EDAF50	7.5	G2	4	4	X	S	C++ Programming		KS KE U W T				3	4
EIEN20	7.5	A	4	3	X	E1	Design of Electrical Machines	X	KS KE U W T				3	4

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links			sp1	sp2	sp3	sp4
MMKF35	7.5	G2	4	3	X	E	Industrial Design		KS KE U W T					3	4
FRTN20	7.5	A	4	4	X	E1	Market-driven Systems		KS KE U W T					3	4
EIEN30	7.5	A	4	3	X	E1	Project in Industrial Electrical Engineering and Automation		KS KE U W T					3	4
MMKF40	7.5	G2	4	3	X	E	Rapid Prototyping in the Product Development Process		KS KE U W T					3	4
TNSF10	7.5	G2	4	4	X	E1	Universal Design, Theory and Project		KS KE U W T					3	4
MAMF21	7.5	G2	4	4	-	S	Working Environment, Occupational Health and Safety		KS KE U W T					3	4
IYT000	15	G2	4	3	-	S	Engineering Training Course		KS KE U W						4

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links				
										sp1	sp2	sp3	sp4
FBRF01	7.5	G2	4	3	X	E	Fundamental Combustion		KS KE U W T				4
FKMN10	7.5	A	4	3	X	E1	High Temperature Materials	X	KS KE U W T				4
MVKF25	7.5	G2	4	3	X	E1	Hydrogen, Batteries and Fuel Cells		KS KE U T				4
FMSN30	7.5	A	4	4	X	E1	Linear and Logistic Regression		KS KE U W T				4
FMAF05	7	G2	4	2	-	E1	Mathematics - Systems and Transforms		KS KE U W T				4
MMTN40	7.5	A	4	3	-	S	Metal Cutting, Advanced Course		KS KE U W T				4
FMEN25	7.5	A	4	3	X	E1	Nano Mechanics and Multiscale Modelling	X	KS KE U W T				4

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links		sp1	sp2	sp3	sp4
FMNF10	6	G2	4	4	X	E1	Numerical Analysis		KS KE U W T					4
MMKN65	7.5	A	4	3	X	E1	Project - Machine Design	X	KS KE U W T					4
MIOF05	2	G2	4	3	-	S	Project in Managerial Economics, Advanced Course		KS KE U W T					4
EITN95	7.5	A	4	4	X	E1	Simulation		KS KE U W T					4
MMTN15	7.5	A	5	4	X	E1	Project - Production and Materials Engineering	X	KS KE U W T		1			
MTTN65	7.5	A	5	5	X	E	Project and Research Methodologies in Supply Chain Management		KS KE U T		1	2		
MMTN15	7.5	A	5	4	X	E1	Project - Production and Materials Engineering	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
MMTN15								X				3	
MMTN15								X					4
MMKN60	15	A	4	3	X	E1	Product Development Project	X	KS KE U W T	Course on hold			
FKMN05	7.5	A	4	3	X	E1	Powder Technology	X	KS KE U W T	Course on hold			

FMSF25 Mathematical Statistics - Complementary Project: *Only one of the courses FMSF25 and FMS035 may be included in a degree.*
BMEN05 Biomechanics: *Replaces the course FHLF05.*
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.*
FMAN60 Optimization: *Written examination before Christmas so that exchange students may participate.*
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 2017/18, 2019/20.*
EIEN20 Design of Electrical Machines: *The course is offered every other academic year and will be given in 2017/18, 2019/20.*
FKMN10 High Temperature Materials: *The course is offered every other academic year and will be given in 2017/18, 2019/20.*
FMEN25 Nano Mechanics and Multiscale Modelling: *The course is offered every other academic year and will be given in 2017/18, 2019/20.*
MMTN15 Project - Production and Materials Engineering: *The course start is decided by the department.*
MMKN60 Product Development Project: *The course is offered every other academic year and will next be offered in 2018/19.*
FKMN05 Powder Technology: *The course is offered every other academic year and will next be offered in 2018/19.*

Externally Elective Courses - M

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp1	sp2	sp3	sp4
GEMA20	7.5	G1	4	1	-	E	English for Engineers	X	KS KE U W T	1	2		
GEMA25	7.5	G1	4	1	-	S	German for Engineers	X	KS KE U W T	1	2		
GEMA60	7.5	G1	4	1	-	S	Law for Engineers, Introductory Course in Business Law	X	KS KE U W T	1	2		
GEMA70	15	G1	4	1	-	S	Japanese for Engineers	X	KS KE U W T	1	2	3	
GEMA65	7.5	G1	4	1	-	S	Chinese for Engineers	X	KS KE U W T			3	4
GEMA20	7.5	G1	4	1	-	E	English for Engineers	X	KS KE U W T			3	4
GEMA01	7.5	G1	4	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.*
GEMA60 Law for Engineers, Introductory Course in Business Law: *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**	
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.

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