

Mechanical Engineering with Industrial Design

Study Year 1 (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
MMKA25	6	G1	-	S	Manual and Computer Aided Drafting		KS KE U W T	1			
AFOA25	7.5	G1	-	S	Aesthetics I		KS KE U W T	1	2		
EMAA01	15	G1	-	S	Calculus in One Variable		KS KE U W T	1	2	3	
EMAB20	6	G1	-	S	Linear Algebra		KS KE U W T		2		
MIOA12	6	G1	-	S	Managerial Economics, Basic Course		KS KE U W T			3	
IDEA95	6	G1	-	S	Introduction to Workshop Training		KS KE U T			3	4
EMAB30	6	G1	-	S	Calculus in Several Variables		KS KE U W T				4

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links					
							17/18 sp1	17/18 sp2	17/18 sp3	17/18 sp4		
MMTF25	7.5	G2	-	S	Computer Aided Design/Computer Aided Manufacturing		KS	KE	U	W	T	4

Study Year 2 (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
IDEA35	6	G1	-	S	Designer Tools		KS KE U W T	1	2		
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		
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 (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
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		
ERTF05	7.5	G2	-	S	Automatic Control, Basic Course		KS KE U W T		2		
IDEA75	5	G1	-	S	Design Methodology		KS KE U W T			3	
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	

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links					
							17/18 sp1	17/18 sp2	17/18 sp3	17/18 sp4		
MAME30	6	G2	-	S	Ergonomics		KS	KE	U	W	T	4
IDEF20	10	G2	-	S	Project in Technical Design		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 4 (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
AFON35	9	A	-	S	Aesthetics II		KS KE U T	1			
MMKN55	7.5	A	-	S	Engineering Design Techniques		KS KE U W T		2		
AFOA30	6	G1	-	S	Product Semiotics		KS KE U W T		2		
MMKF10	5	G2	X	E	Digital Prototyping		KS KE U W T			3	
IDEN55	15	A	-	S	Project in Technical Design		KS KE U W T			3	4
IDEA10	5	G1	-	E	3D modelling and Rendering		KS KE U W T				4

Study Year 5 (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
MAMN25	7.5	A	-	S	Interaction Design		KS KE U W T	1			
IDEN50	7.5	A	X	E	Entrepreneurship and Project Management		KS KE U W T		2		

Elective Courses - MD

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links				
										sp1	sp2	sp3	sp4
EDAA65	6	G1	1	1	-	S	Programming, First Course	X	KS KE U W T		2	3	4
MMTN35	7.5	A	4	3	-	S	Applied FEM - Project		KS KE U W T	1			
MMKF15	7.5	G2	4	3	X	E	Applied Robotics		KS KE U W T	1			
BMEN05	7.5	A	4	3	X	E	Biomechanics	X	KS KE U W T	1			
MMKN46	7.5	A	4	3	X	E1	Computer Based Engineering, Design Analysis 1		KS KE U W T	1			
MMKN11	7.5	A	4	3	X	E	Design for X		KS KE U W T	1			
IYT000	15	G2	4	3	-	S	Engineering Training Course		KS KE U W	1			

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links				
										sp1	sp2	sp3	sp4
EIEN40	7.5	A	4	3	X	E1	Hybrid Vehicle Drive Systems		KS KE U W T	1			
MMTN20	7.5	A	4	4	-	S	Material and Process Selection		KS KE U W T	1			
MTTN40	7.5	A	4	3	X	E	Packaging Technology and Development		KS KE U W T	1			
MMTN25	7.5	A	4	3	-	S	Production Technology		KS KE U W T	1			
MAMF50	7.5	G2	4	3	-	S	Usability Evaluation		KS KE U W T	1			
MTTN55	7.5	A	4	3	X	E	Applied Logistics Simulation		KS KE U W T	1	2		
EIEF01	10	G2	4	4	X	E1	Applied Mechatronics		KS KE U W T	1	2		

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links				
										sp1	sp2	sp3	sp4
TNSF05	7.5	G2	4	4	-	S	Rehabilitation Engineering	KS KE U W T		1	2		
MAMN40	7.5	A	4	4	-	S	Working Environment, Project	KS KE U W T		1	2		
FKMN20	7.5	A	4	3	X	E1	Advanced Materials Technology	KS KE U W T			2		
MION05	7.5	A	4	3	-	S	Business Marketing	KS KE U W T			2		
MMKN51	7.5	A	4	3	X	E1	Computer Based Engineering, Design Analysis 2	KS KE U W T			2		
IYT000	15	G2	4	3	-	S	Engineering Training Course	KS KE U W			2		
MTTF01	5	G2	4	3	-	S	Logistics	KS KE U W T			2		

Course Code	Credits	Cycle	Language				Course Name	Footnote	Links				
			Year	From year	S.Ex. stud.				sp1	sp2	sp3	sp4	
MIOF15	7.5	G2	4	2	-	S	Marketing	KS KE U W T			2		
MTTN35	7.5	A	4	4	X	E	Packaging Logistics	KS KE U W T			2		
IDEN35	5	A	4	4	X	E	Research Methods in Industrial Design	KS KE U W T			2		
MMKN30	7.5	A	4	3	X	E1	Service Robotics	KS KE U W T			2		
BMEN10	7.5	A	4	4	X	E	Tissue Biomechanics	KS KE U W T			2		
MMKN21	7.5	A	4	3	X	E1	Design in Thermoplastic Materials	KS KE U W T				3	
IYT000	15	G2	4	3	-	S	Engineering Training Course	KS KE U W				3	

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links					
										sp1	sp2	sp3	sp4	
MIOF25	6	G2	4	3	-	S	Managerial Economics, Advanced Course		KS KE U W T				3	
FHLN01	7.5	A	4	3	X	E	Structural Optimization		KS KE U W T				3	
MAMF15	6	G2	4	3	-	S	Work Organization and Management		KS KE U W T				3	
EMIN20	7.5	A	4	4	-	S	Energy Systems Analysis: Renewable Sources of Energy		KS KE U W T				3	4
EIEN01	10	A	4	3	X	E1	Mechatronics, Industrial Product Design		KS KE U W T				3	4
BMEA01	6	G1	4	1	-	S	Medicine for Engineers	X	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

Course Code	Credits	Cycle	Language				Course Name	Footnote	Links				
			Year	From year	S.Ex. stud.				sp1	sp2	sp3	sp4	
MAMN40	7.5	A	4	4	-	S	Working Environment, Project	KS KE U W T				3	4
MTTN60	7.5	A	4	3	X	E	Business Process Management	KS KE U W T					4
MMKN41	7.5	A	4	4	X	E	Design in Polymer Composite Materials	KS KE U W T					4
IYT000	15	G2	4	3	-	S	Engineering Training Course	KS KE U W					4
FHLE20	7.5	G2	4	4	X	E	Finite Element Method	KS KE U W T					4
MIOF25	6	G2	4	3	-	S	Managerial Economics, Advanced Course	KS KE U W T					4
MMKN35	7.5	A	5	4	X	E1	Product Innovation	KS KE U W T		1			

Course Code	Credits	Cycle		Language			Course Name	Footnote	Links	Links			
		Year	From year	S.Ex. stud.							sp1	sp2	sp3
MMTN15	7.5	A	5	4	X	E1	Project - Production and Materials Engineering	X	KS KE U W T	1			
MMTN15								X			2		
MMTN15								X				3	
MMTN15								X					4
FKMN15	7.5	A	4	3	-	E1	Light Materials	X	KS KE U W T	Course on hold			

[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.*

[BMEN05](#) Biomechanics: *Replaces the course [FHLF05](#).*

[BMEA01](#) Medicine for Engineers: *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.*

[FKMN15](#) Light Materials: *The course is offered every other academic year and will next be offered in 2018/19.*

Externally Elective Courses - MD

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.*

Degree Projects - MD

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

Links

Course Code Credits

Course Name

MMKM10 30 Degree Project in Technical Design [KS](#) [KE](#) [U](#) [W](#)