

Mechanical Engineering with Industrial Design

Study Year 1, Academic Year 2015/16 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	15/16 sp1					15/16 sp2					15/16 sp3					15/16 sp4				
								F	O	L	H	S	F	O	L	H	S	F	O	L	H	S	F	O	L	H	S
AFOA25	7.5	G1	-	S	Aesthetics I		KS KE U W T	8	40	0	0	60															
MMK010	6	G1	-	S	Manual and Computer Aided Drafting		KS KE U W T	28	36	0	0	85															
FMAA01	15	G1	-	S	Calculus in One Variable		KS KE U W T	24	16	0	0	93	30	16	0	0	87	30	16	0	0	87					
AFOA25	7.5	G1	-	S	Aesthetics I		KS KE U W T						6	32	0	0	54										
FMA420	6	G1	-	S	Linear Algebra		KS KE U W T						36	16	0	0	108										
MIO012	6	G1	-	S	Managerial Economics, Basic Course		KS KE U W T											50	12	3	0	95					
IDEA95	6	G1	-	S	Introduction to Workshop Training		KS KE U T											5	25	0	0	45	6	35	0	0	45
FMA430	6	G1	-	S	Calculus in Several Variables		KS KE U W T																36	16	2	0	108
MMT160	7.5	G2	-	S	Computer Aided Design/Computer Aided Manufacturing		KS KE U W T																28	48	0	2	120

Study Year 2, Academic Year 2016/17 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	16/17 sp1					16/17 sp2					16/17 sp3					16/17 sp4				
								F	O	L	H	S	F	O	L	H	S	F	O	L	H	S	F	O	L	H	S
IDEA35	6	G1	-	S	Designer Tools		KS KE U W T	14	28	14	0	0	14	28	14	0	0										
FMEA30	15	G1	-	S	Engineering Mechanics		KS KE U W T	54	28	12	0	146	42	24	8	4	82										
MMVF01	11	G2	-	S	Thermodynamics and Fluid Mechanics		KS KE U W T	30	38	0	0	88	26	46	6	0	60										
FKM015	7.5	G1	-	S	Materials Engineering, Basic Course		KS KE U W T											56	14	12	0	120					
FHL013	15	G2	-	E1	Solid Mechanics, Basic Course		KS KE U W T											42	35	2	0	137	42	35	1	0	124
MMT012	7.5	G2	-	S	Production and Manufacturing Methods		KS KE U W T																42	28	10	0	110

Study Year 3, Academic Year 2017/18 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	17/18 sp1					17/18 sp2					17/18 sp3					17/18 sp4				
								F	O	L	H	S	F	O	L	H	S	F	O	L	H	S	F	O	L	H	S
MMEF05	7.5	G2	-	S	Transmissions		KS KE U W T	42	28	0	0	70															
EIEF35	9	G2	-	S	Electrical Engineering, Basic Course		KS KE U W T	32	18	8	0	40	32	20	8	0	80										
MVKF01	6	G2	X	S	Energy and the Environment in Sustainable Development		KS KE U W T	10	2	0	2	66	8	4	0	2	66										
FRTF05	7.5	G2	-	S	Automatic Control, Basic Course		KS KE U W T						30	30	12	0	128										
IDEA75	5	G1	-	S	Design Methodology		KS KE U W T											9	30	0	12	90					
MMKF01	5	G2	-	E	Product Development and Design Methodology	X	KS KE U W T											25	26	0	0	90					
MMEF01	5	G2	-	S	Tribology		KS KE U W T											28	14	0	0	56					
MAMF30	6	G2	-	S	Ergonomics		KS KE U W T																22	14	4	8	112
IDEF20	10	G2	-	S	Project in Technical Design		KS KE U W T																12	24	0	0	180

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

Study Year 4, Academic Year 2018/19 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	18/19 sp1					18/19 sp2					18/19 sp3					18/19 sp4				
								F	O	L	H	S	F	O	L	H	S	F	O	L	H	S	F	O	L	H	S
AFON35	9	A	-	S	Aesthetics II		KS KE U T	20	80	0	0	140															
MMKF40	7.5	G2	X	E	Rapid Prototyping in the Product Development Process		KS KE U W T	10	40	0	0	70	0	0	0	0	80										
MMKN55	7.5	A	-	S	Engineering Design Techniques		KS KE U W T						28	49	8	12	100										
AFOA30	6	G1	-	S	Product Semiotics		KS KE U W T						14	56	0	0	90										
IDEN55	15	A	-	S	Project in Technical Design		KS KE U W T											8	16	0	14	130	8	17	0	13	150
IDEA10	5	G1	-	E	3D modelling and Rendering		KS KE U W T																4	56	0	0	60

Course Code	Credits	Cycle	Year	Language			Course Name	Footnote	Links	sp1	sp2	sp3	sp4																			
				From year	S.Ex. stud.																											
													F	O	L	H	S	F	O	L	H	S	F	O	L	H	S	F	O	L	H	S
EDA501	6	G1	1-15/16	1	-	S	Programming, First Course		KS KE U W T		4	0	0	0	15	18	9	6	0	30	14	0	24	0	40							
MMTN35	7.5	A	4-18/19	3	-	S	Applied FEM - Project		KS KE U W T	10	24	0	24	140																		
MMKF15	7.5	G2	4-18/19	3	X	E	Applied Robotics		KS KE U W T	28	22	8	20	100																		
BMEN05	7.5	A	4-18/19	3	X	E	Biomechanics	X	KS KE U W T	32	8	0	10	110																		
MMKN46	7.5	A	4-18/19	3	X	E1	Computer Based Engineering, Design Analysis 1		KS KE U W T	20	50	0	0	130																		
EIEN41	7.5	A	4-18/19	3	X	E1	Electric and Electric Hybrid Vehicle Technology		KS KE U W T	28	6	0	24	142																		
IYT000	15	G2	4-18/19	3	-	S	Engineering Training Course		KS KE U W	0	0	0	0	400																		
MMTN20	7.5	A	4-18/19	4	-	S	Material and Process Selection		KS KE U W T	12	18	8	24	80																		
MTTN40	7.5	A	4-18/19	4	X	E	Packaging Technology and Development		KS KE U W T	40	28	20	0	112																		
MMTN25	7.5	A	4-18/19	3	-	S	Production Technology		KS KE U W T	22	14	20	34	120																		
MAMF50	7.5	G2	4-18/19	3	-	S	Usability Evaluation		KS KE U W T	20	8	0	30	142																		
EIEF01	10	G2	4-18/19	4	X	E1	Applied Mechatronics		KS KE U W T	22	0	12	8	90	14	4	12	14	90													
TNSF05	7.5	G2	4-18/19	4	-	S	Rehabilitation Engineering		KS KE U W T	16	0	6	2	96	0	4	0	12	64													
MAMN40	7.5	A	4-18/19	4	-	S	Working Environment, Project		KS KE U W T	0	0	0	20	60	0	0	0	20	60													
FKMN20	7.5	A	4-18/19	3	X	E1	Advanced Materials Technology		KS KE U W T						42	14	8	10	70													
MION05	7.5	A	4-18/19	3	-	S	Business Marketing		KS KE U W T						36	16	0	1	147													
MMKN51	7.5	A	4-18/19	3	X	E1	Computer Based Engineering, Design Analysis 2		KS KE U W T						20	50	0	0	130													

Course Code	Credits	Cycle	Year	Language			Course Name	Footnote	Links	sp1	sp2	sp3				sp4								
				From year	S.Ex. stud.							F	O	L	H	S	F	O	L	H	S	F	O	L
TNSF10	7.5	G2	4-18/19	4	X	E1	Universal Design, Theory and Project		KS KE U W T			10	8	4	8	128	0	8	0	4	30			
MAMN40	7.5	A	4-18/19	4	-	S	Working Environment, Project		KS KE U W T			0	0	0	20	60	0	0	0	20	60			
MTTN60	7.5	A	4-18/19	3	X	E	Business Process Management		KS KE U W T										34	16	0	4	146	
MMKN41	7.5	A	4-18/19	4	X	E	Design in Polymer Composite Materials		KS KE U W T										42	28	8	16	90	
IYT000	15	G2	4-18/19	3	-	S	Engineering Training Course		KS KE U W										0	0	0	0	400	
FHLE20	7.5	G2	4-18/19	4	X	E	Finite Element Method		KS KE U W T										32	28	2	0	140	
MIOF25	6	G2	4-18/19	3	-	S	Managerial Economics, Advanced Course		KS KE U W T										36	14	8	1	101	
BMEA01	6	G1	4-18/19	4	-	S	Medicine for Engineers	X	KS KE U W T	Course on hold														
MMKN35	7.5	A	5-19/20	4	X	E1	Product Innovation		KS KE U W T	21	32	0	0	150										
MMTN15	7.5	A	5-19/20	4	X	E1	Project - Production and Materials Engineering	X	KS KE U W T	0	0	0	40	160										
IDEN50	7.5	A	5-19/20	4	-	E	Entrepreneurship and Project Management	X	KS KE U W T			62	39	0	12	40								
MMTN15	7.5	A	5-19/20	4	X	E1	Project - Production and Materials Engineering	X	KS KE U W T			0	0	0	40	160								
MMTN15								X											0	0	0	40	160	
MMTN15								X												0	0	0	40	160

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

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

[BMEA01](#) Medicine for Engineers: *The course is offered every other academic year and will next be offered in 2019/20.*

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

[IDEN50](#) Entrepreneurship and Project Management: *mandatory course for students admitted to H14 and earlier.*

Externally Elective Courses - MD

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	Links																			
										sp1	sp2			sp3			sp4												
										F	O	L	H	S	F	O	L	H	S	F	O	L	H	S	F	O	L	H	S
GEMA20	7.5	G1	4-18/19	1	-	E	English for Engineers	X	KS KE U W T	30	0	0	0	30	20	0	0	0	30										
GEMA25	7.5	G1	4-18/19	1	-	S	German for Engineers	X	KS KE U W T	0	40	0	0	60	0	40	0	0	60										
GEMA60	7.5	G1	4-18/19	1	-	S	Law for Engineers, Introductory Course in Business Law	X	KS KE U W T	25	0	0	0	75	25	0	0	0	75										
GEMA70	15	G1	4-18/19	1	-	S	Japanese for Engineers	X	KS KE U W T	0	24	0	0	110	0	18	0	0	110	0	24	0	0	110					
GEMA65	7.5	G1	4-18/19	1	-	S	Chinese for Engineers	X	KS KE U W T											0	20	0	0	80	0	20	0	0	80
GEMA20	7.5	G1	4-18/19	1	-	E	English for Engineers	X	KS KE U W T											30	0	0	0	30	20	0	0	0	30
GEMA01	7.5	G1	4-18/19	1	-	S	French for Engineers: Language, Culture and Society, First Course	X	KS KE U W T											0	26	0	0	60	0	26	0	0	60

[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	Links
MMKM10	30	Degree Project in Technical Design	KS KE U W