

Mechanical Engineering with Industrial Design

Study Year 1, Academic Year 2013/14 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	13/14	13/14	13/14	13/14
								sp1	sp2	sp3	sp4
MMKA15	7	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		
MIOA01	9	G1	-	S	Managerial Economics, Basic Course		KS KE U W T			3	
IDEA30	5	G1	-	S	Introduction to Workshop Training		KS KE U T			3	4
AFOA01	6	G1	-	S	Aesthetics I		KS KE U W T				4

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links								
							13/14 sp1	13/14 sp2	13/14 sp3	13/14 sp4					
EMA430	6	G1	-	S	Calculus in Several Variables		KS	KE	U	W	T				4

Study Year 2, Academic Year 2014/15 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	14/15	14/15	14/15	14/15
								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		
FKM015	7.5	G1	-	S	Materials Engineering, Basic Course		KS KE U W T			3	
FHL013	15	G2	-	E1	Solid Mechanics, Basic Course		KS KE U W T			3	4
MMT012	7.5	G2	-	S	Production and Manufacturing Methods		KS KE U W T				4

Study Year 3, Academic Year 2015/16 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	15/16	15/16	15/16	15/16
								sp1	sp2	sp3	sp4
MMEF05	7.5	G2	-	S	Transmissions		KS KE U W T	1			
MIE012	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		
FRT010	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	-	S	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					
							15/16 sp1	15/16 sp2	15/16 sp3	15/16 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, 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
AFO065	9	A	-	S	Aesthetics II		KS KE U T	1			
MMKN55	7.5	A	-	S	Engineering Design Techniques		KS KE U W T		2		
AFO165	6	G1	-	S	Product Semiotics		KS KE U W T		2		
MMKF10	5	G2	X	E1	Digital Prototyping		KS KE U W T			3	
IDE051	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, 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
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
MMT125	7.5	A	4 - 16/17	3	-	S	Applied FEM – project		KS KE U W T	1			
MMKF15	7.5	G2	4 - 16/17	3	X	E1	Applied Robotics		KS KE U W T	1			
BMEN05	7.5	A	4 - 16/17	3	X	E	Biomechanics	X	KS KE U W T	1			
MMKN46	7.5	A	4 - 16/17	3	X	E1	Computer Based Engineering, Design Analysis 1		KS KE U W T	1			
MMKN11	7.5	A	4 - 16/17	3	-	S	Design for X		KS KE U W T	1			
MIE100	7.5	A	4 - 16/17	3	X	E1	Hybrid Vehicle Drive Systems		KS KE U W T	1			
MMT015	7.5	A	4 - 16/17	4	-	S	Material and Process Selection		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
MTTN40	7.5	A	4 - 16/17	3	X	E	Packaging Technology and Development		KS KE U W T	1			
MMT031	7.5	A	4 - 16/17	3	-	S	Production Technology		KS KE U W T	1			
MAM120	7.5	G2	4 - 16/17	3	-	S	Usability Evaluation		KS KE U W T	1			
MTTN55	7.5	A	4 - 16/17	3	X	E	Applied Logistics Simulation		KS KE U W T	1	2		
EIEF01	10	G2	4 - 16/17	4	X	E1	Applied Mechatronics		KS KE U W T	1	2		
EMIF20	7.5	G2	4 - 16/17	3	X	E	Environmental Issues		KS KE U W T	1	2		
TNX097	7.5	G2	4 - 16/17	4	-	S	Rehabilitation Engineering		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
MAM032	7.5	A	4 - 16/17	4	-	S	Working Environment, Project		KS KE U W T	1	2		
FKM070	7.5	A	4 - 16/17	3	X	E1	Advanced Materials Technology		KS KE U W T		2		
MION05	7.5	A	4 - 16/17	3	-	S	Business Marketing		KS KE U W T		2		
MMKN51	7.5	A	4 - 16/17	3	X	E1	Computer Based Engineering, Design Analysis 2		KS KE U W T		2		
MTTF01	5	G2	4 - 16/17	3	-	S	Logistics		KS KE U W T		2		
MIOF15	7.5	G2	4 - 16/17	3	-	S	Marketing		KS KE U W T		2		
MTTN35	7.5	A	4 - 16/17	4	X	E	Packaging Logistics		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			
										sp1	sp2	sp3	sp4
IDEN35	5	A	4 - 16/17	4	X	E	Research Methods in Industrial Design		KS KE U W T		2		
MMKN30	7.5	A	4 - 16/17	3	X	E1	Service Robotics	X	KS KE U W T		2		
BMEN10	7.5	A	4 - 16/17	4	X	E	Tissue Biomechanics		KS KE U W T		2		
MMKN21	7.5	A	4 - 16/17	3	X	E1	Design in Thermoplastic Materials		KS KE U W T			3	
FKMN15	7.5	A	4 - 16/17	3	-	E1	Light Materials	X	KS KE U W T			3	
MIO040	6	G2	4 - 16/17	3	-	S	Managerial Economics, Advanced Course		KS KE U W T			3	
FHLN01	7.5	A	4 - 16/17	3	X	E	Structural Optimization		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
MAMF15	6	G2	4 - 16/17	3	-	S	Work Organization and Management		KS KE U W T			3	
EMI040	7.5	A	4 - 16/17	4	-	S	Energy Systems Analysis: Renewable Sources of Energy		KS KE U W T			3	4
EITA05	4.5	G1	4 - 16/17	1	-	S	History of Technology		KS KE U W T			3	4
EIEN01	10	A	4 - 16/17	3	X	E1	Mechatronics, Industrial Product Design		KS KE U W T			3	4
TNX153	7.5	G2	4 - 16/17	2	X	E1	Rehabilitation Engineering and Design		KS KE U W T			3	4
MAM032	7.5	A	4 - 16/17	4	-	S	Working Environment, Project		KS KE U W T			3	4
MTTN60	7.5	A	4 - 16/17	3	X	E	Business Process Management		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			
										sp1	sp2	sp3	sp4
MMKN41	7.5	A	4 - 16/17	4	X	E1	Design in Polymer Composite Materials		KS KE U W T				4
FHL064	7.5	G2	4 - 16/17	4	X	E	Finite Element Method		KS KE U W T				4
MIO040	6	G2	4 - 16/17	3	-	S	Managerial Economics, Advanced Course		KS KE U W T				4
MMKN35	7.5	A	5 - 17/18	4	X	E1	Product Innovation		KS KE U W T	1			
MMTN15	7.5	A	5 - 17/18	4	X	E1	Project - Production and Materials Engineering	X	KS KE U W T	1			
MMTN15								X			2		
MMTN15								X				3	

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links				
									sp1	sp2	sp3	sp4	
MMTN15								X					4

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

[MMKN30](#) Service Robotics: *The course is offered every other academic year and will be given in 2016/17, 2018/2019.*

[FKMN15](#) Light Materials: *The course is offered every other academic year and will be given in 2016/17.*

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

Externally Elective Courses - MD

Course Code	Credits	Cycle	Language			S.Ex. stud.	Course Name	Footnote	Links				
			Year	From year						sp1	sp2	sp3	sp4
GEMA20	7.5	G1	4 - 16/17	1	-	E	English for Engineers	X	KS KE U W T	1	2		
GEMA25	7.5	G1	4 - 16/17	1	-	S	German for Engineers	X	KS KE U W T	1	2		
GEMA60	7.5	G1	4 - 16/17	1	-	S	Law for Engineers, Introductory Course in Business Law	X	KS KE U W T	1	2		
GEMA70	15	G1	4 - 16/17	1	-	S	Japanese for Engineers	X	KS KE U W T	1	2	3	
GEMA65	7.5	G1	4 - 16/17	1	-	S	Chinese for Engineers	X	KS KE U W T			3	4
GEMA20	7.5	G1	4 - 16/17	1	-	E	English for Engineers	X	KS KE U W T			3	4
GEMA01	7.5	G1	4 - 16/17	1	-	S	French for Engineers: Language, Culture and Society, First Course	X	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					
GEMA60	7.5	G1	4 - 16/17	1	-	S	Law for Engineers, Introductory Course in Business Law	X	KS	KE	U	W	T			3	4
GEMA55	6	G1	4 - 16/17	1	-	S	Medicine for Engineers	X	KS	KE	U	W	T	Course on hold			

[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.*

[GEMA55](#) Medicine for Engineers: *The course is offered every other academic year and will next be offered in 2017/18. 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](#)