

Mechanical Engineering with Industrial Design

Study Year 1, Academic Year 2009/10 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	09/10 sp4
MMK010	6	G1	-	S	Manual and Computer Aided Drafting		KS KE U W	
MMTA02	6	G1	-	S	Introduction to Mechanical Engineering		KS KE U W	
FMAA01	15	G1	-	S	Calculus in One Variable		KS KE U W	
FMA421	9	G1	-	S	Linear Algebra with Scientific Computation		KS KE U W	
MIOA01	9	G1	-	S	Managerial Economics, Basic Course		KS KE U W	
IDEA30	5	G1	-	S	Introduction to Workshop Training		KS KE U	1
FMA430	6	G1	-	S	Calculus in Several Variables		KS KE U W	1
FMEA01	5	G1	-	S	Engineering Mechanics - Statics and Particle Dynamics		KS KE U W	1

Study Year 2, Academic Year 2010/11 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	10/11 sp4
AFOA01	6	G1	-	S	Aesthetics I		KS KE U W	
IDEA35	6	G1	-	S	Designer Tools		KS KE U W	
MMVF01	11	G2	-	S	Thermodynamics and Fluid Mechanics		KS KE U W	
FMEA25	7	G1	-	S	Mechanics - Dynamics		KS KE U W	
FKM015	7.5	G1	-	S	Materials Engineering, Basic Course		KS KE U W	
FHL013	15	G2	-	E1	Solid Mechanics, Basic Course		KS KE U W	1
MMT012	7.5	G2	-	S	Production and Manufacturing Methods		KS KE U W	1

Study Year 3, Academic Year 2011/12 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	11/12 sp4
MMEF05	7.5	G2	-	S	Transmissions		KS KE U W T	
MIE012	9	G2	-	S	Electrical Engineering, Basic Course		KS KE U W T	
MVKF01	6	G2	X	S	Energy and the Environment in Sustainable Development		KS KE U W T	
FRT010	7.5	G2	-	E2	Automatic Control, Basic Course		KS KE U W T	
IDEA75	5	G1	-	E2	Design Methodology		KS KE U W T	
MMKF01	5	G2	X	E2	Product Development and Design Methodology		KS KE U W T	
MMEF01	5	G2	-	S	Tribology		KS KE U W T	
MAMA11	5	G1	-	S	Cognitive and Physical Ergonomics		KS KE U W T	1
IDEF20	10	G2	-	E2	Project in Technical Design		KS KE U W T	1

Study Year 4, Academic Year 2012/13 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	12/13	12/13	12/13	12/13
								sp1	sp2	sp3	sp4
AFO065	9	A	-	S	Aesthetics II		KS KE U T	1			
IDEA10	5	G1	-	E2	3D modelling and Rendering		KS KE U W T		2		
MMKN05	5	A	-	E2	Engineering Design Techniques		KS KE U W T		2		
AFO165	6	G1	-	S	Product Semiotics		KS KE U W T		2		
IDE051	15	A	-	E2	Project in Technical Design		KS KE U W T			3	4
MMKF10	5	G2	-	S	Digital Prototyping		KS KE U W T				4

Study Year 5, 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
MAMN25	7.5	A	-	S	Interaction Design		KS KE U W T	1			
EXTP05	7.5	A	-	S	Entrepreneurship and Venture Development – from Idea to Market		KS KE U W T		2		

Elective Courses - MD

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
MMT125	7.5	A	4 - 12/13	3	-	S	Applied FEM – project		KS KE U W T	1
FHL110	7.5	A	4 - 12/13	3	X	E	Biomechanics		KS KE U W T	1
MMK140	4.5	A	4 - 12/13	3	X	E2	Computer Based Engineering, Design Analysis 1		KS KE U W T	1
MMKN11	7.5	A	4 - 12/13	3	X	E2	Design for X		KS KE U W T	1
IDEN40	5	A	4 - 12/13	4	X	E	Design Management 2		KS KE U W T	1
MIE100	7.5	A	4 - 12/13	3	X	E2	Hybrid Vehicle Drive Systems		KS KE U W T	1
MMT015	7.5	A	4 - 12/13	4	-	S	Material and Process Selection		KS KE U W T	1

Course Code	Credits	Cycle		Language			Course Name	Footnote	Links	sp4
		Year	From year	S.Ex. stud.						
MTTN40	7.5	A	4 - 12/13	3	X	E2	Packaging Technology and Development		KS KE U W T	1
FKMN01	7.5	A	4 - 12/13	3	X	E1	Polymer Materials		KS KE U W T	1
MTTN30	7.5	A	4 - 12/13	3	X	E	Process-based Business Development	X	KS KE U W T	1
GEMA30	4.5	G1	4 - 12/13	1	-	S	Swedish for Engineers		KS KE U W T	1
MAM120	7.5	G2	4 - 12/13	3	-	S	Usability Evaluation		KS KE U W T	1
MTTN55	7.5	A	4 - 12/13	3	X	E2	Applied Logistics Simulation		KS KE U W T	1
EIEF01	10	G2	4 - 12/13	3	X	E2	Applied Mechatronics		KS KE U W T	1

Course Code	Credits	Cycle		Language			Course Name	Footnote	Links	sp4
		Year	From year	S.Ex. stud.						
GEMA20	7.5	G1	4 - 12/13	1	-	E	English for Engineers		KS KE U W T	1
EMIF20	7.5	G2	4 - 12/13	3	X	E	Environmental Issues		KS KE U W T	1
EMIF15	7.5	G2	4 - 12/13	2	-	S	Environmental Science		KS KE U W T	1
MMKA10	5	G1	4 - 12/13	3	X	E	Form, Colour and Product Expression		KS KE U W T	1
GEMF05	7.5	G2	4 - 12/13	1	X	E	Gender in Science and Engineering		KS KE U	1
GEMA25	7.5	G1	4 - 12/13	1	-	S	German for Engineers		KS KE U W T	1
GEMA50	4.5	G1	4 - 12/13	1	-	S	History of Technology		KS KE U W T	1

Course Code	Credits	Cycle		From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
		Year								
GEMA60	7.5	G1	4 - 12/13	1	-	S	Law for Engineers, Introductory Course in Business Law		KS KE U W T	1
IDEF06	3	G2	4 - 12/13	3	X	E2	Portfolio Technique		KS KE U W T	1
TNX097	7.5	G2	4 - 12/13	2	-	S	Rehabilitation Engineering		KS KE U W T	1
GEMA75	7.5	G1	4 - 12/13	1	-	S	Spanish for Engineers: Spanish and Latin-American culture and society		KS KE U W T	1
MAM032	7.5	A	4 - 12/13	4	-	S	Working Environment, Project		KS KE U W T	1
GEMA70	15	G1	4 - 12/13	1	-	S	Japanese for Engineers		KS KE U W T	1
FKM070	7.5	A	4 - 12/13	3	X	E1	Advanced Materials Technology		KS KE U W T	
FHLN15	7.5	A	4 - 12/13	4	X	E	Biomechanics, Advanced Course		KS KE U T	
MION05	7.5	A	4 - 12/13	3	-	S	Business Marketing		KS KE U W T	
MMK145	4.5	A	4 - 12/13	3	X	E2	Computer Based Engineering, Design Analysis 2		KS KE U W T	
MTTF01	5	G2	4 - 12/13	3	-	S	Logistics		KS KE U W T	
MIOF01	9	G2	4 - 12/13	3	-	S	Marketing and Globalization		KS KE U W T	

Course Code	Credits	Cycle	Language				Course Name	Footnote	Links	sp4
			Year	From year	S.Ex.	stud.				
MMKF15	7.5	G2	4 - 12/13	3	X	E1	Applied Robotics		KS KE U W T	
MMKN20	5	A	4 - 12/13	3	X	E2	Design in Thermoplastic Materials		KS KE U W T	
FKMN15	7.5	A	4 - 12/13	3	-	E1	Light Materials		KS KE U W T	
MIO040	6	G2	4 - 12/13	3	-	S	Managerial Economics, Advanced Course		KS KE U W T	
IDEA15	1	G1	4 - 12/13	3	-	E1	Photo Techniques		KS KE U W T	
FHLN01	7.5	A	4 - 12/13	3	X	E	Structural Optimization		KS KE U W T	
GEMA65	7.5	G1	4 - 12/13	1	-	S	Chinese for Engineers		KS KE U T	
FMI040	7.5	A	4 - 12/13	3	-	S	Energy Systems Analysis: Renewable Sources of Energy		KS KE U W T	
GEMA20	7.5	G1	4 - 12/13	1	-	E	English for Engineers		KS KE U W T	
GEMA40	7.5	G1	4 - 12/13	1	-	S	Entrepreneurship and Business Development		KS KE U W T	
GEMA01	7.5	G1	4 - 12/13	1	-	S	French for Engineers: Language, Culture and Society, First Course		KS KE U W T	
MMK070	7.5	G2	4 - 12/13	3	X	E	Industrial Design		KS KE U W T	
GEMA60	7.5	G1	4 - 12/13	1	-	S	Law for Engineers, Introductory Course in Business Law		KS KE U W T	
EIEN01	10	A	4 - 12/13	3	X	E2	Mechatronics, Industrial Product Design		KS KE U W T	
GEMA55	6	G1	4 - 12/13	1	-	S	Medicine for Engineers		KS KE U W T	
TNX153	7.5	G2	4 - 12/13	2	-	E2	Rehabilitation Engineering and Design		KS KE U W T	
GEMA45	3	G1	4 - 12/13	1	-	S	Teaching and Learning		KS KE U W T	
MAM032	7.5	A	4 - 12/13	4	-	S	Working Environment, Project		KS KE U W T	
MMT160	7.5	G2	4 - 12/13	3	-	S	Computer Aided Design/Computer Aided Manufacturing		KS KE U W T	
FHL064	7.5	G2	4 - 12/13	4	X	S	Finite Element Method		KS KE U W T	
MIO040	6	G2	4 - 12/13	3	-	S	Managerial Economics, Advanced Course		KS KE U W T	
MTTN30	7.5	A	4 - 12/13	3	X	E	Process-based Business Development	X	KS KE U W T	
MMT195	7.5	A	4 - 12/13	3	-	S	Recycling Technology	X	KS KE U W T	Course on hold
MMKN30	7.5	A	4 - 12/13	3	X	E1	Service Robotics	X	KS KE U W T	Course on hold
MMKN35	7.5	A	5 - 13/14	4	X	S	Product Innovation		KS KE U W T	1

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
MMTN01	7.5	A	5 - 13/14	4	-	S	Project - Production and Materials Engineering	X	KS KE U W T	1
MMTN01								X		
MMTN01								X		
MMTN01								X		

[MTTN30](#) Process-based Business Development: *The course is offered twice during 2012/2013.*

[MMT195](#) Recycling Technology: *The course is offered every other academic year and will next be offered in 2013/14.*

[MMKN30](#) Service Robotics: *The course is offered every other academic year and will next be offered in 2013/14.*

[MMTN01](#) Project - Production and Materials Engineering: *The course start is decided by the department.*

Degree Projects - MD

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

Links

Course Code Credits

Course Name

MMK920 30 Degree Project in Technical Design [KS](#) [KE](#) [U](#) [W](#)