

# Mechanical Engineering with Industrial Design

## Study Year 1, Academic Year 2008/09 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	08/09 sp4
<a href="#">MMK010</a>	6	G1	-	S	Manual and Computer Aided Drafting		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	
<a href="#">MMTA02</a>	6	G1	-	S	Introduction to Mechanical Engineering		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	
<a href="#">FMAA01</a>	15	G1	-	S	Calculus in One Variable		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	
<a href="#">FMA421</a>	9	G1	-	S	Linear Algebra with Scientific Computation		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	
<a href="#">MIOA01</a>	9	G1	-	S	Managerial Economics, Basic Course		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	
<a href="#">FMA430</a>	6	G1	-	S	Calculus in Several Variables		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	1
<a href="#">FMEA01</a>	5	G1	-	S	Engineering Mechanics - Statics and Particle Dynamics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	1
<a href="#">IDEA30</a>	5	G1	-	S	Introduction to Workshop Training		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a>	1

## Study Year 2, Academic Year 2009/10 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	09/10 sp4
<a href="#">AFOA01</a>	6	G1	-	S	Aesthetics I		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	
<a href="#">IDEA35</a>	6	G1	-	S	Designer Tools		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	
<a href="#">MMVF01</a>	11	G2	-	S	Thermodynamics and Fluid Mechanics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	
<a href="#">FMEA25</a>	7	G1	-	S	Mechanics - Dynamics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	
<a href="#">FKM015</a>	7.5	G1	-	S	Materials Engineering, Basic Course		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	
<a href="#">FHL013</a>	15	G2	-	E1	Solid Mechanics, Basic Course		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	1
<a href="#">MMT012</a>	7.5	G2	-	S	Production and Manufacturing Methods		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	1

### Study Year 3, Academic Year 2010/11 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	10/11 sp4
<a href="#">MMEF05</a>	7.5	G2	-	S	Transmissions		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	
<a href="#">MIE012</a>	9	G2	-	S	Electrical Engineering, Basic Course		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	
<a href="#">MVKF01</a>	6	G2	X	S	Energy and the Environment in Sustainable Development		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	
<a href="#">FRT010</a>	7.5	G2	-	E2	Automatic Control, Basic Course		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	
<a href="#">IDEA75</a>	5	G1	-	E2	Design Methodology		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	
<a href="#">MMKF01</a>	5	G2	X	E2	Product Development and Design Methodology		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	
<a href="#">MMEF01</a>	5	G2	-	S	Tribology		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	
<a href="#">MAMA10</a>	5	G1	-	S	Cognitive and Physical Ergonomics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	1
<a href="#">IDEF20</a>	10	G2	-	E2	Project in Technical Design		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	1

**Study Year 4, Academic Year 2011/12 (Mandatory Courses)**

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	11/12	
								sp4	
<a href="#">AFO065</a>	9	A	-	S	Aesthetics II		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">T</a>		
<a href="#">IDEA10</a>	5	G1	X	E2	3D modelling and Rendering		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>		
<a href="#">MMKN05</a>	5	A	-	E2	Engineering Design Techniques		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>		
<a href="#">AFO165</a>	6	G1	-	S	Product Semiotics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>		
<a href="#">IDE051</a>	15	A	-	E2	Project in Technical Design		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>		1
<a href="#">MMKF10</a>	5	G2	-	S	Digital Prototyping		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>		1

### Study Year 5, Academic Year 2012/13 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	12/13			
								sp1	sp2	sp3	sp4
<a href="#">MAMN25</a>	7.5	A	-	S	Interaction Design		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1			
<a href="#">EXTP05</a>	7.5	A	-	E2	Entrepreneurship and Venture Development – from Idea to Market		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>		2		

## Elective Courses - MD

Course Code	Credits	Cycle		Language			Course Name	Footnote	Links	sp4
		Year	From year	S.Ex. stud.						
<a href="#">MMT125</a>	7.5	A	4 - 11/12	3	-	S	Applied FEM ☒ project		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FHL110</a>	7.5	A	4 - 11/12	3	X	E	Biomechanics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">MMK140</a>	4.5	A	4 - 11/12	3	X	E2	Computer Based Engineering, Design Analysis 1		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">MMKN11</a>	7.5	A	4 - 11/12	3	X	E2	Design for X		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">MIE100</a>	7.5	A	4 - 11/12	3	X	E2	Hybrid Vehicle Drive Systems		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">MTTF01</a>	5	G2	4 - 11/12	3	-	S	Logistics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">MMT015</a>	7.5	A	4 - 11/12	4	-	S	Material and Process Selection		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">MTTN40</a>	7.5	A	4 - 11/12	3	X	E2	Packaging Technology and Development		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FKMN01</a>	7.5	A	4 - 11/12	3	X	E1	Polymer Materials		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">MTTN30</a>	7.5	A	4 - 11/12	3	X	E	Process-based Business Development		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">GEMA30</a>	4.5	G1	4 - 11/12	1	-	S	Swedish for Engineers		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">MAM120</a>	7.5	G2	4 - 11/12	3	-	S	Usability Evaluation		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EIEF01</a>	10	G2	4 - 11/12	3	X	E2	Applied Mechatronics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">GEMA20</a>	7.5	G1	4 - 11/12	1	-	E	English for Engineers		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMIF20</a>	7.5	G2	4 - 11/12	3	X	E	Environmental Issues		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMIF15</a>	7.5	G2	4 - 11/12	2	-	S	Environmental Science		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">GEMF05</a>	7.5	G2	4 - 11/12	1	X	E	Gender in Science and Engineering		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a>	
<a href="#">GEMA25</a>	7.5	G1	4 - 11/12	1	-	S	German for Engineers		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">GEMA50</a>	4.5	G1	4 - 11/12	1	-	S	History of Technology		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">GEMA60</a>	7.5	G1	4 - 11/12	1	-	S	Law for Engineers, Introductory Course in Business Law		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">IDEF06</a>	3	G2	4 - 11/12	3	X	E2	Portfolio Technique		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">TNX097</a>	7.5	G2	4 - 11/12	2	-	S	Rehabilitation Engineering		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">GEMA75</a>	7.5	G1	4 - 11/12	1	-	S	Spanish for Engineers: Spanish and Latin-American culture and society		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">MAM032</a>	7.5	A	4 - 11/12	4	-	S	Working Environment, Project		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">GEMA70</a>	15	G1	4 - 11/12	1	-	S	Japanese for Engineers		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FKM070</a>	7.5	A	4 - 11/12	3	X	E1	Advanced Materials Technology		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">MION05</a>	7.5	A	4 - 11/12	3	-	S	Business Marketing		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">MMK145</a>	4.5	A	4 - 11/12	3	X	E2	Computer Based Engineering, Design Analysis 2		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">MIOF01</a>	9	G2	4 - 11/12	3	-	S	Marketing and Globalization		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">MMKF15</a>	7.5	G2	4 - 11/12	3	X	E1	Applied Robotics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">MMKN20</a>	5	A	4 - 11/12	3	X	E2	Design in Thermoplastic Materials		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FKMN15</a>	7.5	A	4 - 11/12	3	-	S	Light Materials		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	

Course Code	Credits	Cycle		Language			Course Name	Footnote	Links	sp4
		Year	From year	S.Ex. stud.						
<a href="#">MIO040</a>	6	G2	4 - 11/12	3	-	S	Managerial Economics, Advanced Course		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">IDEA15</a>	1	G1	4 - 11/12	3	-	E1	Photo Techniques		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FHLN01</a>	7.5	A	4 - 11/12	3	X	E	Structural Optimization		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">GEMA65</a>	7.5	G1	4 - 11/12	1	-	S	Chinese for Engineers		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">T</a>	
<a href="#">FMI040</a>	7.5	A	4 - 11/12	3	-	S	Energy Systems Analysis: Renewable Sources of Energy		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">GEMA20</a>	7.5	G1	4 - 11/12	1	-	E	English for Engineers		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">GEMA40</a>	7.5	G1	4 - 11/12	1	-	S	Entrepreneurship and Business Development		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">GEMA01</a>	7.5	G1	4 - 11/12	1	-	S	French for Engineers: Language, Culture and Society, First Course		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">GEMA60</a>	7.5	G1	4 - 11/12	1	-	S	Law for Engineers, Introductory Course in Business Law		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EIEN01</a>	10	A	4 - 11/12	3	X	E2	Mechatronics, Industrial Product Design		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">GEMA55</a>	6	G1	4 - 11/12	1	-	S	Medicine for Engineers		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">MMT195</a>	7.5	A	4 - 11/12	3	-	S	Recycling Technology		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">TNX153</a>	7.5	G2	4 - 11/12	2	-	S	Rehabilitation Engineering and Design		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">MMKN30</a>	7.5	A	4 - 11/12	3	X	E1	Service Robotics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">GEMA45</a>	3	G1	4 - 11/12	1	-	S	Teaching and Learning		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">MAM032</a>	7.5	A	4 - 11/12	4	-	S	Working Environment, Project		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">MMT160</a>	7.5	G2	4 - 11/12	3	-	S	Computer Aided Design/Computer Aided Manufacturing		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">IDEA70</a>	7	G1	4 - 11/12	3	X	E2	Design Management		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FHL064</a>	7.5	G2	4 - 11/12	4	X	S	Finite Element Method		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">MIO040</a>	6	G2	4 - 11/12	3	-	S	Managerial Economics, Advanced Course		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">MMKN35</a>	7.5	A	5 - 12/13	4	X	E2	Product Innovation		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">MMTN01</a>	7.5	A	5 - 12/13	4	-	S	Project - Production and Materials Engineering	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">MMTN01</a>								X		

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links
<a href="#">MMTN01</a>								X	
<a href="#">MMTN01</a>								X	

[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](#)