

Design and Product Development

300 credits

Civilingenjör i design och produktutveckling

6CDPU

Valid from:

Determined by Board of Studies for Mechanical Engineering and Design

Date determined

Entry requirements

Degree in Swedish Civilingenjör 300 hp och Teknologie master 120 hp



Curriculum

Semester 8 (Spring 2017)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDDD51	Service Design and Innovation	6	A1X	3	E
TDDE03	Design Studio II	12*	A1X	4	E
TEIE06	Corporate Planning	6*	A1X	-	Е
TEIM09	International Business	6	A1X	2	E
TEIO13	Leadership and Organizational Change	6	A1X	4	E
TKMJ34	Product Development Methodology	6*	A1X	2	E
TMKA04	Wood - Innovation	6	A1X	1	E
TMKT48	Design Optimization	6	A1X	3	Е
TMKT74	Advanced CAD	6	A1X	1	Е
TMMS21	Mechatronics	6	G2X	1	Е
TPPE54	Advanced Planning and Scheduling	6	A1X	1	E
TMPP02	Project Course - Race Vehicle Engineering	6*	G2X	-	V
Period 2					
TDDE03	Design Studio II	12*	A1X	4	E
TDEI21	Strategic Organisational Application of IT - Workflow and Knowledge Management	6	A1X	4	E
TEIE06	Corporate Planning	6*	A1X	-	Е
TEIO06	Innovative Entrepreneurship	6	A1X	2	E
TKMJ29	Resource Efficient Products	6	A1X	1	E
TKMJ34	Product Development Methodology	6*	A1X	2	E
TMKM18	Engineering Materials, Welding and Manufacturing Technology	6	G2X	2	E
TMKT57	Product Modelling	6	A1X	3	E
TMKT69	Conceptual Design - Project Course	6	A1N	4	E
TMPS27	Production Systems	6	A1X	3	E
TPPE19	Analysing and Improving Manufacturing Operation	6	A1X	4	E
TMPP02	Project Course - Race Vehicle Engineering	6*	G2X	-	V



Specialisation: Product Development - Design Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDDE03	Design Studio II	12*	A1X	4	С
TKMJ34	Product Development Methodology	6*	A1X	2	С
TDDD51	Service Design and Innovation	6	A1X	3	Е
Period 2					
TDDE03	Design Studio II	12*	A1X	4	С
TKMJ34	Product Development Methodology	6*	A1X	2	С
TKMJ29	Resource Efficient Products	6	A1X	1	E

Specialisation: Product Development - Engineering Design

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TKMJ34	Product Development Methodology	6*	A1X	2	С
TMMS21	Mechatronics	6	G2X	1	С
TMKT48	Design Optimization	6	A1X	3	E
Period 2					
TKMJ34	Product Development Methodology	6*	A1X	2	С
TMKT57	Product Modelling	6	A1X	3	E
ТМКТ69	Conceptual Design - Project Course	6	A1N	4	E
TMPS27	Production Systems	6	A1X	3	E

Specialisation: Product Development - Management

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1	·				
TEIE06	Corporate Planning	6*	A1X	-	E
TEIM09	International Business	6	A1X	2	E
TEIO13	Leadership and Organizational Change	6	A1X	4	E
Period 2					
TEIO06	Innovative Entrepreneurship	6	A1X	2	С
TDEI21	Strategic Organisational Application of IT - Workflow and Knowledge Management	6	A1X	4	E
TEIE06	Corporate Planning	6*	A1X	-	E



Semester 9 (Autumn 2017)

TEIM04 Industrial Market and Technology Strategies 12* A1X 2 E TEIO07 Project Based Organization and Management 6 A1X 4 E TEIO89 Innovation and Entrepreneurship - Project Course 12* A1X 4 E TEIO89 Purchasing 6 A1N 2 E TKMJ46 Advanced Ecodesign 6 A1X 1 E TMKT77 System Safety 6 A1X 4 E TMKT79 Collaborative Multidisciplinary Design Optimization 6 A1X 2 E TMKT79 Product Visualization 6 A1X 3 E TMMV01 Aerodynamics 6 A1X 2 E TMQU13 Customer Focused Product and Service Development 6 A1X 1 E TROD11 Information Design Foundation 6 A1X 1 E TDDD61 Design - Strategy and Management 6 A1X 1 E TEIM04 Industrial Market and Technology Strategies 12* A1X 2 E TEIN89 Innovation and Entrepreneurship - Project Course 1 E TMKT71 Affective Engineering 6 A1X 2 E TMKT72 Assembly Technology 6 A1X 3 E	Course code	Course name	Credits	Level	Timetable module	ECV
TEIO07 Project Based Organization and Management 6 A1X 4 E TEIO89 Innovation and Entrepreneurship - Project Course TETS23 Purchasing 6 A1N 2 E TKMJ46 Advanced Ecodesign 6 A1X 1 E TMKT77 System Safety 6 A1X 4 E TMKT79 Collaborative Multidisciplinary Design Optimization 6 A1X 2 E TMKT79 Collaborative Multidisciplinary Design Optimization 6 A1X 2 E TMKT79 Collaborative Multidisciplinary Design Optimization 6 A1X 2 E TMKT96 Product Visualization 6* A1X 3 E TMMV01 Aerodynamics 6 A1X 2 E TMQU13 Customer Focused Product and Service Development 6 A1X 4 E TNGD11 Information Design Foundation 6 G2X 2 E Period 2 TAOP18 Supply Chain Optimization 6 A1X 1 E TEIM04 Industrial Market and Technology Strategies 12* A1X 2 E TEIO89 Innovation and Entrepreneurship - Project Course 12* A1X 4 E TMKT71 Affective Engineering 6 A1X 2 E TMKT71 Affective Engineering 6 A1X 2 E TMKT96 Product Visualization 6* A1X 2 E	Period 1					
TEIO89 Innovation and Entrepreneurship - Project Course TETS23 Purchasing 6 A1N 2 E TKMJ46 Advanced Ecodesign 6 A1X 1 E TMKT77 System Safety 6 A1X 4 E TMKT79 Collaborative Multidisciplinary Design Optimization 6 A1X 2 E TMKT79 Collaborative Multidisciplinary Design Optimization 6 A1X 2 E TMKT79 Collaborative Multidisciplinary Design Optimization 6 A1X 2 E TMKT96 Product Visualization 6 A1X 2 E TMMV01 Aerodynamics 6 A1X 2 E TMQU13 Customer Focused Product and Service Development 6 A1X 4 E TNGD11 Information Design Foundation 6 G2X 2 E Period 2 TAOP18 Supply Chain Optimization 6 A1X 1 E TEIM04 Industrial Market and Technology Strategies 12* A1X 2 E TEIM09 Innovation and Entrepreneurship - Project Course 12* A1X 4 E TETS31 Logistics Strategies 6 A1X 4 E TMKT71 Affective Engineering 6 A1X 2 E TMKT96 Product Visualization 6 A1X 1 E	TEIM04	Industrial Market and Technology Strategies	12*	A1X	2	E
TETS23 Purchasing 6 A1N 2 E TKMJ46 Advanced Ecodesign 6 A1X 1 E TMKT77 System Safety 6 A1X 4 E TMKT79 Collaborative Multidisciplinary Design Optimization 6 A1X 2 E TMKT79 Collaborative Multidisciplinary Design Optimization 6 A1X 2 E TMKT79 Collaborative Multidisciplinary Design Optimization 6 A1X 2 E TMKT96 Product Visualization 6 A1X 2 E TMMV01 Aerodynamics 6 A1X 2 E TMQU13 Customer Focused Product and Service Development 6 A1X 4 E TNGD11 Information Design Foundation 6 G2X 2 E Period 2 TAOP18 Supply Chain Optimization 6 A1X 1 E TDDD61 Design - Strategy and Management 6 A1X 1 E TEIM04 Industrial Market and Technology Strategies 12* A1X 2 E TEIM05 Innovation and Entrepreneurship - Project Course 12* A1X 4 E TETS31 Logistics Strategies 6 A1X 4 E TMKT71 Affective Engineering 6 A1X 2 E TMKT96 Product Visualization 6 A1X 2 E	TEIO07	Project Based Organization and Management	6	A1X	4	E
TKMJ46 Advanced Ecodesign 6 A1X 1 E TMKT77 System Safety 6 A1X 4 E TMKT79 Collaborative Multidisciplinary Design Optimization 6 A1X 2 E TMKT79 Collaborative Multidisciplinary Design Optimization 6 A1X 2 E TMKT79 Collaborative Multidisciplinary Design Optimization 6 A1X 2 E TMKT96 Product Visualization 6* A1X 3 E TMMV01 Aerodynamics 6 A1X 2 E TMQU13 Customer Focused Product and Service Development 6 A1X 4 E Period 2 TAOP18 Supply Chain Optimization 6 A1X 1 E TDDD61 Design - Strategy and Management 6 A1X 1 E TEIM04 Industrial Market and Technology Strategies 12* A1X 2 E TEIO89 Innovation and Entrepreneurship - Project Course 12* A1X 4 E TETS31 Logistics Strategies 6 A1X 4 E TMKT71 Affective Engineering 6 A1X 2 E TMKT96 Product Visualization 6* A1X 3 E	TEIO89		12*	A1X	4	E
TMKT77 System Safety Collaborative Multidisciplinary Design Optimization Collaborative Multidisciplinary Design Optimization Collaborative Multidisciplinary Design Optimization 6 A1X 2 E TMKT79 Collaborative Multidisciplinary Design Optimization 6 A1X 2 E TMKT96 Product Visualization 6 A1X 3 E TMMV01 Aerodynamics 6 A1X 2 E TMQU13 Customer Focused Product and Service Development TNGD11 Information Design Foundation 6 G2X 2 E Period 2 TAOP18 Supply Chain Optimization 6 A1X 1 E TDDD61 Design - Strategy and Management 6 A1X 1 E TEIM04 Industrial Market and Technology Strategies 12* A1X 2 E TEIO89 Innovation and Entrepreneurship - Project Course TETS31 Logistics Strategies 6 A1X 4 E TMKT71 Affective Engineering 6 A1X 2 E TMKT96 Product Visualization 6* A1X 3 E	TETS23	Purchasing	6	A1N	2	E
TMKT79 Collaborative Multidisciplinary Design Optimization 6 A1X 2 E TMKT79 Collaborative Multidisciplinary Design Optimization 6 A1X 2 E TMKT96 Product Visualization 6* A1X 3 E TMMV01 Aerodynamics 6 A1X 2 E TMQU13 Customer Focused Product and Service Development 6 A1X 4 E TNGD11 Information Design Foundation 6 G2X 2 E Period 2 TAOP18 Supply Chain Optimization 6 A1X 1 E TDDD61 Design - Strategy and Management 6 A1X 1 E TEIM04 Industrial Market and Technology Strategies 12* A1X 2 E TEIO89 Innovation and Entrepreneurship - Project Course 12* A1X 4 E TETS31 Logistics Strategies 6 A1X 4 E TMKT71 Affective Engineering 6 A1X 2 E TMKT96 Product Visualization 6* A1X 3 E	TKMJ46	Advanced Ecodesign	6	A1X	1	Е
TMKT79 Collaborative Multidisciplinary Design Optimization 6 A1X 2 E TMKT96 Product Visualization 6* A1X 3 E TMMV01 Aerodynamics 6 A1X 2 E TMQU13 Customer Focused Product and Service Development 6 A1X 4 E TNGD11 Information Design Foundation 6 G2X 2 E Period 2 TAOP18 Supply Chain Optimization 6 A1X 1 E TDDD61 Design - Strategy and Management 6 A1X 1 E TEIM04 Industrial Market and Technology Strategies 12* A1X 2 E TEIO89 Course 12* A1X 4 E TETS31 Logistics Strategies 6 A1X 4 E TMKT71 Affective Engineering 6 A1X 2 E TMKT96 Product Visualization 6* A1X 3 E	TMKT77	System Safety	6	A1X	4	E
TMKT96 Product Visualization 6* A1X 3 E TMMV01 Aerodynamics 6 A1X 2 E TMQU13 Customer Focused Product and Service Development 6 A1X 4 E TNGD11 Information Design Foundation 6 G2X 2 E Period 2 TAOP18 Supply Chain Optimization 6 A1X 1 E TDDD61 Design - Strategy and Management 6 A1X 1 E TEIM04 Industrial Market and Technology Strategies 12* A1X 2 E TEIO89 Innovation and Entrepreneurship - Project Course 12* A1X 4 E TETS31 Logistics Strategies 6 A1X 4 E TMKT71 Affective Engineering 6 A1X 2 E TMKT96 Product Visualization 6* A1X 3 E	TMKT79		6	A1X	2	E
TMMV01Aerodynamics6A1X2ETMQU13Customer Focused Product and Service Development6A1X4ETNGD11Information Design Foundation6G2X2EPeriod 2TAOP18Supply Chain Optimization6A1X1ETDDD61Design - Strategy and Management6A1X1ETEIM04Industrial Market and Technology Strategies12*A1X2ETEIO89Innovation and Entrepreneurship - Project Course12*A1X4ETETS31Logistics Strategies6A1X4ETMKT71Affective Engineering6A1X2ETMKT96Product Visualization6*A1X3E	TMKT79		6	A1X	2	E
TMQU13 Customer Focused Product and Service Development 6 A1X 4 E TNGD11 Information Design Foundation 6 G2X 2 E Period 2 TAOP18 Supply Chain Optimization 6 A1X 1 E TDDD61 Design - Strategy and Management 6 A1X 1 E TEIM04 Industrial Market and Technology Strategies 12* A1X 2 E TEIO89 Innovation and Entrepreneurship - Project Course 12* A1X 4 E TETS31 Logistics Strategies 6 A1X 4 E TMKT71 Affective Engineering 6 A1X 2 E TMKT96 Product Visualization 6* A1X 3 E	TMKT96	Product Visualization	6*	A1X	3	E
TMQU13 Development TNGD11 Information Design Foundation Feriod 2 TAOP18 Supply Chain Optimization TDDD61 Design - Strategy and Management TEIM04 Industrial Market and Technology Strategies TEIO89 Innovation and Entrepreneurship - Project Course TETS31 Logistics Strategies TMKT71 Affective Engineering TMKT96 Product Visualization 6 A1X 4 E TMKT96 Product Visualization 6 A1X 4 E TMKT96 Product Visualization 6 A1X 3 E	TMMV01	Aerodynamics	6	A1X	2	E
Period 2TAOP18Supply Chain Optimization6A1X1ETDDD61Design - Strategy and Management6A1X1ETEIM04Industrial Market and Technology Strategies12*A1X2ETEIO89Innovation and Entrepreneurship - Project Course12*A1X4ETETS31Logistics Strategies6A1X4ETMKT71Affective Engineering6A1X2ETMKT96Product Visualization6*A1X3E	TMQU13		6	A1X	4	E
TAOP18Supply Chain Optimization6A1X1ETDDD61Design - Strategy and Management6A1X1ETEIM04Industrial Market and Technology Strategies12*A1X2ETEIO89Innovation and Entrepreneurship - Project Course12*A1X4ETETS31Logistics Strategies6A1X4ETMKT71Affective Engineering6A1X2ETMKT96Product Visualization6*A1X3E	TNGD11	Information Design Foundation	6	G2X	2	E
TDDD61 Design - Strategy and Management 6 A1X 1 E TEIM04 Industrial Market and Technology Strategies 12* A1X 2 E TEIO89 Innovation and Entrepreneurship - Project Course 12* A1X 4 E TETS31 Logistics Strategies 6 A1X 4 E TMKT71 Affective Engineering 6 A1X 2 E TMKT96 Product Visualization 6* A1X 3 E	Period 2					
TEIM04 Industrial Market and Technology Strategies 12* A1X 2 E TEIO89 Innovation and Entrepreneurship - Project Course 12* A1X 4 E TETS31 Logistics Strategies 6 A1X 4 E TMKT71 Affective Engineering 6 A1X 2 E TMKT96 Product Visualization 6* A1X 3 E	TAOP18	Supply Chain Optimization	6	A1X	1	E
TEIO89 Innovation and Entrepreneurship - Project Course 12* A1X 4 E TETS31 Logistics Strategies 6 A1X 4 E TMKT71 Affective Engineering 6 A1X 2 E TMKT96 Product Visualization 6* A1X 3 E	TDDD61	Design - Strategy and Management	6	A1X	1	Е
TETS31 Logistics Strategies 6 A1X 4 E TMKT71 Affective Engineering 6 A1X 2 E TMKT96 Product Visualization 6* A1X 3 E	TEIM04	Industrial Market and Technology Strategies	12*	A1X	2	Е
TMKT71Affective Engineering6A1X2ETMKT96Product Visualization6*A1X3E	TEIO89		12*	A1X	4	E
TMKT96 Product Visualization 6* A1X 3 E	TETS31	Logistics Strategies	6	A1X	4	Е
	TMKT71	Affective Engineering	6	A1X	2	E
TMPS22 Assembly Technology 6 A1X 3 E	TMKT96	Product Visualization	6*	A1X	3	E
	TMPS22	Assembly Technology	6	A1X	3	Е
TMQU12 Lean Production 6 A1X 2 E	TMQU12	Lean Production	6	A1X	2	E



Specialisation: Product Development - Design Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TMPP03	Project Course Advanced - Design Engineering	12*	A1X	3	С
TKMJ46	Advanced Ecodesign	6	A1X	1	E
TMKT96	Product Visualization	6*	A1X	3	E
Period 2					
TMPP03	Project Course Advanced - Design Engineering	12*	A1X	-	С
TDDD61	Design - Strategy and Management	6	A1X	1	E
TMKT71	Affective Engineering	6	A1X	2	E
ТМКТ96	Product Visualization	6*	A1X	3	E

Specialisation: Product Development - Engineering Design

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TMPM03	Project Course Advanced - Design and Manufacturing Engineering	12*	A1X	3	С
TMKT77	System Safety	6	A1X	4	E
Period 2					
TMPM03	Project Course Advanced - Design and Manufacturing Engineering	12*	A1X	-	С
TMPS22	Assembly Technology	6	A1X	3	E

Specialisation: Product Development - Management

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TMPI02	Project Course Advanced - Management	12*	A1X	3	С
TEIO07	Project Based Organization and Management	6	A1X	4	E
TMQU13	Customer Focused Product and Service Development	6	A1X	4	E
Period 2					
TMPI02	Project Course Advanced - Management	12*	A1X	-	С
TMQU12	Lean Production	6	A1X	2	E



Semester 10 (Spring 2018)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TQXX33	Degree project - Master's Thesis	30*	A1X	=	С
Period 2					
TQXX33	Degree project - Master's Thesis	30*	A1X	-	С



ECV = Elective / Compulsory /Voluntary
*The course is divided into several semesters and/or periods