Mechanical Engineering, B Sc in Engineering

180 credits

Högskoleingenjör i maskinteknik

6IMAS

Valid from: 2016 Spring semester

Determined by
Board of Studies for Mechanical Engineering and Design

Date determined
2016-01-19

Entry requirements

Degree in Swedish

Högskoleingenjör och Teknologie kandidat, 180 hp

Curriculum

Semester 2 (Spring 2017)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TAIU05	Linear Algebra	6	G1F	4	C
TAIU07	Computations with MATLAB	4	G1N	1	C
TMMI03	Engineering Mechanics	8*	G1X	3	C
TGTU35	Introduction to University Studies	2*	G1X	-	V
Period 2					
TMMI03	Engineering Mechanics	8*	G1X	3	C
TMMI70	Production Engineering	6	G1X	4	C
TSIU06	Automatic Control	6	G1X	2	C
TGTU35	Introduction to University Studies	2*	G1X	-	V

Semester 3 (Autumn 2017)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TMKT73	CAD, second course	6*	G2X	1	C
TMMI69	Fluid Mechanics and Heat Transfer	6	G1X	3	C
TSIU61	Automatic Control	6	G1X	2	C
Period 2					
TMKT73	CAD, second course	6*	G2X	1	C
TMMI13	Hydraulics and Pneumatics	6	G2X	3	C
TMMI17	Solid Mechanics, basic course	6	G2X	2	C

Semester 4 (Spring 2018)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TMEI01	Electrical Engineering	6	G1X	3	C
TMMI18	Engineering Materials	6	G1X	2	C
TMMI37	The Finite Element Method, FEM	6*	G2X	1	C
Period 2					
TAIU06	Mathematical Statistics	6	G1F	4	C
TMMI16	Machine Elements	6	G2X	3	C
TMMI37	The Finite Element Method, FEM	6*	G2X	1	C
TPTE06	Industrial Placement	6	G1X	-	E

Semester 5 (Autumn 2018)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TMMI68	CAD and Drafting Techniques, Continued Course	6*	G2X	2	C
TADI02	Numerical Algorithms	6	G2X	2	E
TAIU08	Calculus in Several Variables	6	G1F	3	E
TFMT08	Measurement Technology	6	G2X	3	E
TMAL02	Aircraft and Vehicle Design	6	G2F	4	E
TMKM16	Sustainable Material Selection	6	A1X	4	E
TMKT80	Wood - Material	6	G2X	2	E
TMME14	Machine Elements, Second Course	6	A1X	3	E
TMMI19	Engineering Design Methodology	6	G2X	1	E
TMMI47	Production Development	6	G2F	1	E
TMMI56	Energy Engineering	6	G2X	1	E
TMMV57	Applied Energy Engineering	6*	G2X	3	E
TMPS33	Virtual Manufacturing	6	A1N	4	E
TMPT03	Production Engineering - Continuing Course	6	G2F	2	E
Period 2					
TMMI68	CAD and Drafting Techniques, Continued Course	6*	G2X	4	C
TEAE01	Industrial Economics, Basic Course	6	G1X	2	E
TEIO29	Leadership and Organisation	6	G1X	4	E
TMKT81	Wood - Realisation	6	G2X	1	E
TMMI09	Vibrations and Fatigue in Mechanical Structures	6	G2X	3	E
TMMI46	Industrial Automation	6	G2F	3	E
TMMI71	Engineering Mechanics, Advanced course	6	G2X	2	E
TMMV57	Applied Energy Engineering	6*	G2X	3	E

Specialisation: Design Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TMMI19	Engineering Design Methodology	6	G2X	1	C
Period 2					
TMMI09	Vibrations and Fatigue in Mechanical Structures	6	G2X	3	C

Specialisation: Energy Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TMMI56	Energy Engineering	6	G2X	1	C
TMMV57	Applied Energy Engineering	6*	G2X	3	C
Period 2					
TMMV57	Applied Energy Engineering	6*	G2X	3	C

Specialisation: Production Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TMMI47	Production Development	6	G2F	1	C
TMPS33	Virtual Manufacturing	6	A1N	4	E
TMPT03	Production Engineering - Continuing Course	6	G2F	2	E
Period 2					
TMMI46	Industrial Automation	6	G2F	3	C

Semester 6 (Spring 2019)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TGTU58	Communication	2	G2F	2	C
TMMI52	Industrial Automation - Project	12	G2F	1	E
TMMI53	Engineering Design - Project	12	G2F	1	E
TMMI54	Energy Engineering - Project	12	G2X	1	E
Period 2					
TQXX11	Degree project - Bachelor's Thesis	16	G2X	-	C

Specialisation: Design Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TMMI53	Engineering Design - Project	12	G2F	1	C

Specialisation: Energy Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TMMI54	Energy Engineering - Project	12	G2X	1	C

Specialisation: Production Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TMMI52	Industrial Automation - Project	12	G2F	1	C

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