



Programme syllabus

[An accessible version of the syllabus can be found in the Course and programme directory.](#)

Degree Programme in Mechanical Engineering 180 credits

Högskoleingenjörutbildning i maskinteknik, Södertälje

Valid for students admitted to the education from autumn 07 (HT - Autumn term; VT - Spring term).

This is a translation of the Swedish, legally binding, programme syllabus.

Programme objectives

Knowledge and understanding

Skills and abilities

Ability to make judgements and adopt a standpoint

Extent and content of the programme

Eligibility and selection

Implementation of the education

Courses

The programme is course-based. Lists of courses are included in appendix 1.

Grading system

Courses in the first and the second cycle are graded on a scale from A to F. A-E are passing grades, A is the highest grade. The grades pass (P) and fail (F) are used for courses under certain circumstances.

Appendix 1 - Course list

Appendix 2 - Programme syllabus descriptions



Appendix 1: Course list

Degree Programme in Mechanical Engineering (TIMAS)

General courses

Year 1

Mandatory courses (52.5 Credits)

Code	Name	Credits	Edu. level
HM1000	Engineering Materials and Production 1	7.5 hp	First cycle
HM1001	Strength of Materials with Statics	7.5 hp	First cycle
HM1002	Computerized Tools in Design Process	7.5 hp	First cycle
HM1003	Engineering Materials and Production 2	7.5 hp	First cycle
HM1007	Computer Programming	7.5 hp	First cycle
HN1900	Engineering and Information Skills	7.5 hp	First cycle
HN1901	Mathematics I	7.5 hp	First cycle

Optional courses

Code	Name	Credits	Edu. level
6E2300	Introduction to Mathematics	1.5 hp	
6E2301	Introduction to Computer Studies	1.5 hp	

Year 2

Mandatory courses (15.0 Credits)

Code	Name	Credits	Edu. level
HN1002	Applied Mathematics	7.5 hp	First cycle
HU1900	Business Economics and Organizational Behaviour	7.5 hp	First cycle

Industrial Business Administration and Manufacturing (IEPS)

Year 1

Mandatory courses (7.5 Credits)

Code	Name	Credits	Edu. level
HM1005	Quality Assurance	7.5 hp	First cycle

Year 2

Mandatory courses (45.0 Credits)

Code	Name	Credits	Edu. level
HM1006	Electrical and Control Engineering	7.5 hp	First cycle
HM1013	Mechanical Design and Energy Technology	7.5 hp	First cycle
HM1016	Manufacturing Process, Intermediate Course 1	7.5 hp	First cycle
HN1902	Environmental Science and Work Science	7.5 hp	First cycle
HU1000	Industrial Marketing	7.5 hp	First cycle
HU1901	Engineering Practice and Development	7.5 hp	First cycle

Year 3

Mandatory courses (7.5 Credits)

Code	Name	Credits	Edu. level
HU1001	Business Calculation and Decision Models	7.5 hp	First cycle

Conditionally elective courses

Code	Name	Credits	Edu. level
HM101X	Degree Project in Industrial Business Administration and Manufacturing, First Cycle	15.0 hp	First cycle
HM1021	Quality Tools for Continual Improvement	7.5 hp	First cycle
HM1026	Logistics	7.5 hp	First cycle
HM102X	Degree Project in Mechanical Engineering, First Cycle	15.0 hp	First cycle
HU1903	Management	7.5 hp	First cycle
HU1904	Account and Entrepreneurship	7.5 hp	First cycle
HU1905	Civil and Commercial Law for Engineers	7.5 hp	First cycle
ML2200	Manufacturing Process, Intermediate Course 2	7.5 hp	Second cycle

Innovation and Industrial Design (IODS)

Year 1

Mandatory courses (7.5 Credits)

Code	Name	Credits	Edu. level
HM1009	Industrial Design with Colour and Craft	7.5 hp	First cycle

Year 2

Mandatory courses (45.0 Credits)

Code	Name	Credits	Edu. level
HM1006	Electrical and Control Engineering	7.5 hp	First cycle
HM1008	Mechanics II	7.5 hp	First cycle
HM1010	Functional Elements	7.5 hp	First cycle
HM1018	Innovation and Design Process	7.5 hp	First cycle
HN1902	Environmental Science and Work Science	7.5 hp	First cycle
HU1901	Engineering Practice and Development	7.5 hp	First cycle

Year 3

Conditionally elective courses

Code	Name	Credits	Edu. level
HM1004	Solid Mechanics, Intermediate Course	7.5 hp	First cycle
HM100X	Degree Project in Innovation and Design, First Cycle	15.0 hp	First cycle
HM1011	Ergonomics in Product Development	7.5 hp	First cycle
HM1012	Industrial Design with Colour and Form, Intermediate Course	7.5 hp	First cycle
HM1015	Integrated Product Development, Project Course	15.0 hp	First cycle
HM1016	Manufacturing Process, Intermediate Course 1	7.5 hp	First cycle
HM1023	Applied Mechanics	7.5 hp	First cycle
HM102X	Degree Project in Mechanical Engineering, First Cycle	15.0 hp	First cycle
HM103X	Degree Project in Mechanical Design, First Cycle	15.0 hp	First cycle
HS1027	Light, Acoustics and Design	7.5 hp	First cycle
ML2201	Computerized Tools in Mechanical Design, Intermediate Course	7.5 hp	Second cycle
ML2202	Computerized Tools in Design Process, Intermediate Course	7.5 hp	Second cycle



Appendix 2: Specialisations

Degree Programme in Mechanical Engineering
(TIMAS)

Industrial Business Administration and
Manufacturing (IEPS)

No information entered.

Innovation and Industrial Design (IODS)

No information entered.