



Programme syllabus

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

Degree Programme in Design and Product Realisation 300 credits

Civilingenjörsutbildning i design och produktframtagning

Valid for students admitted to the education from autumn 11 (HT - Autumn term; VT - Spring term).

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

Programme objectives

Beyond those objectives that are specified in the Higher Education Ordinance, a graduate of Master of Science in Design and Product Realization at KTH will...

Knowledge and understanding

- Have noticeably good knowledge in the design and product realization process in order to produce products which are easy to use. This includes choice of materials, manufacturing techniques, and energy sources.

- have a good foundation in natural and technical sciences with a specialisation in the second cycle within one of the application areas within the chain: design, construction, production

Skills and abilities

- have an ability to combine and carry out the traditional natural and technical science foundation in the programme to construction and design as a foundation for realization of attractive products and services
- have individual and professional skills such as language, leadership, project-management and communication for work as an engineer in a leadership position or as a leader in a technically intensive company.
- essentially, have developed one's own creative ability through significant elements of production, with the creativity as a complement to the analytical perspective.
- have a basic understanding of entrepreneurial activities

Ability to make judgements and adopt a standpoint

- Have especially good understanding that engineering-related problems, considered from a system perspective, are often complex, incompletely defined and sometimes contain contradictions
- Show an understanding of responsibility and ethics relevant for all steps in the product realization process, e.g. design – construction – production/manufacturing and utilization.

The local degree ordinance of the Royal Institute of Technology can be found in the KTH Regulations.

Extent and content of the programme

The program consists of 300 credits which correspond to five years of full-time studies.

The program's level is primarily on the first-cycle for the first three years and the second-cycle in the two last years.

The language of instruction is mainly Swedish, but certain courses and course elements are in English.

Eligibility and selection

In order to study at KTH, basic eligibility requirements must be fulfilled. In addition, the following special eligibility requirements must be fulfilled for KTHs Masters of Science in Engineering

programmes: Mathematics course E, Physics course B and Chemistry course A or the corresponding equivalents. All of the courses must have been completed with at least a grade of pass (godkänd) or 3. If the applicant refers to other studies or work experiences that may show competences then they will be assessed accordingly.

More information regarding KTH's admission policy can be found in the KTH Regulations, www.kth.se.

Implementation of the education

Structure of the education

Academic year, terms, and study periods can be found in the KTH Regulations, www.kth.se

Study years 1-3, studies in the first-cycle

The study programme consists of the mandatory courses in years 1-3 in the first-cycle (G), and a specialisation in the second-cycle (A) in years 4 and 5, which concludes with 30 credits on a degree project.

The programme is organised around courses in the mathematical, technically scientific and technical application subjects. The education in and usage of professional skills and abilities of significant importance for a Master of Science in Engineering, for example: communication, ethics, entrepreneurship, sustainable development, company- and societal aspects, are integrated into the courses.

In order to make the programme comprehensive, collaboration is emphasized between the different subjects and throughout the entire programme. The courses are scheduled and coordinated in such a way that this is reached through common project work and hand-in assignments, etc.

The students study together throughout year 1 and 2 and parts of year 3. Before the conclusion of the first cycle, the student must choose a specialisation area. Within the chosen specialisation, the student will study a limited area of applied product design and realization.

The programme is structured in a way that a student can choose to get a Degree of Bachelor of Science in Engineering. This makes it possible for students to continue their studies abroad or at other universities in Sweden.

Mathematically natural science courses

Most of the courses in basic mathematical and natural science are in the first year. The remainder are in the second year.

Technical courses

Throughout years 1-3, the student will study basic technical scientific courses in the technical area of product design and realization.

The first three years conclude with 15 credits of specialization/degree project work for the Degree of Bachelor of Science in Engineering in the chosen technical area. After completing 180 credits, the student can apply for the Degree of Bachelor of Science in Engineering if the degree requirements are fulfilled.

Study years 4-5, specialisation in the second cycle

The specialisation area consists mainly of advanced courses and degree project work within one specific technical scientific area. Students in the Product Design and Realization program can choose between a large selection of specialisations with predetermined study plans. The student is guaranteed a place in any specialisation they choose.

Except for the previously mentioned work-related skills and abilities, knowledge about entrepreneurship is integrated into the courses during years 4 and 5.

The Master of Science in Engineering's knowledge about the environment and sustainable development is deepened and solidified due to the integration of these subjects in the programme's courses with special aspects: for example, life-cycle analysis, environmental effects and choice of material, which is respective for the chosen technical specialisations.

A reason for the specialization is that the student has the possibility of making many contacts with the department and a research group where the degree project work will be done.

A student that has started a first-cycle study programme in another technical scientific area can conclude with a specialisation in a different technical area. Approval courses for such a specialisation must be taken with the approval of the administrative office of the programme.

Available specialisation areas for Design and Product Realization:

Integrated Product Design

Industrial Production

Industrial Product Development

Aerospace

Industrial Management

Naval Architecture

Sustainable Energy Engineering

Sustainable Technology

Technical Mechanics

Vehicle Engineering

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.

Conditions for participation in the programme

Term Enrolment and Course Application

A prerequisite to be allowed to participate in the studies is that the student verifies enrollment for courses the coming term every spring and fall. This is done via www.antagning.se between the 1st and 15th of November and the 1st and 15th of May.

By verifying his/her enrolment, the student has **Selection of Master programmes**

program:

For studying in year 2:

A minimum of 45 credits from year 1 must be completed by the end of the exam period in August. Students who don't fulfill this requirement must devise an individual study plan with a guidance counselor.

For studying in year 3:

A minimum of 90 credits from years 1 and 2 must be completed by the end of the exam period in August. Students who don't fulfill this requirement must devise an individual study plan with a guidance counselor.

For studying in year 4:

A minimum of 150 credits from years 1-3 must be completed by the end of the exam period in August. Within these 150 credits, a degree project worth 15 credits and a minimum of 110 credits from compulsory courses from years 1 and 2 must be completed. Students who don't fulfill this requirement must devise an individual study plan with a guidance counselor.

For studying in year 5:

A minimum of 195 credits from years 1, 2, 3 and 4 of which at least 45 credits from year 4 must be completed by the end of the exam period in August. Students who don't fulfill this requirement must devise an individual study plan with a guidance counselor.

Prior to year 4 (Master's level), students choose a Masters program within the context of their Master of Science in Engineering program. This is done during May 1-15. Selection of master is directed by the admissions office within the department of student services at KTH. In addition to the general requirements for studies in year 4, specific admission requirements apply for every Master's program. Judgments of these requirements are reviewed by the department of Student Services at KTH.

Recognition of previous academic studies

The student has the possibility to apply to receive credit for results from previous studies at another university within the country or abroad. The form is available on KTH's website.

KTH's policy for receiving credits from previous academic studies is available in the KTH Regulations, www.kth.se

Studies abroad

Students in the Program have the possibility to study abroad through the contracts KTH has with universities within EU and outside. Exchange studies can not be done in the first or second year. It is also possible to do the degree project work abroad.

The application deadline for studies abroad is around December 15th.

Degree project

A Degree project on the Bachelor level consisting of 15 credits and a Degree project of 30 credits are a requirement for the program.

In order for a student to begin the degree project on the Bachelor level a minimum of 120 credits must be met. Plus the general requirements for studies within the 3rd year must be met.

Students are required to have a minimum of 240 credits before beginning the Final Project.

KTH's rules for the degree project are available in the KTH-Regulations, www.kth.se

Degree

In order to graduate as a Master of Science in Engineering, Degree Program in Design and Product Realization, the student must be approved in every course that is included in the student's study plan. The study plan must consist of 300 credits including 30 credits of degree project work.

Reference to the local degree policy is available in the KTH Regulations.

Appendix 1 *Lists of courses and specialisations.*

Appendix 2 *Description of specialisations.*

Appendix 1 - Course list

Appendix 2 - Programme syllabus descriptions



Appendix 1: Course list

Degree Programme in Design and Product Realisation (CDEPR)

General courses

Year 1

Mandatory courses (60.0 Credits)

Code	Name	Credits	Edu. level
DN1212	Numerical Methods and Basic Programming	9.0 hp	First cycle
MF1037	Design and Product Realization, Modelling and Simulation	9.0 hp	First cycle
MF1046	Design and Product Realization, Introduction	10.5 hp	First cycle
SF1624	Algebra and Geometry	7.5 hp	First cycle
SF1625	Calculus in One Variable	7.5 hp	First cycle
SF1626	Calculus in Several Variables	7.5 hp	First cycle
SG1130	Mechanics I	9.0 hp	First cycle

Recommended courses

Code	Name	Credits	Edu. level
SF1611	Introductory Course in Mathematics I	1.5 hp	First cycle

Year 2

Mandatory courses (60.0 Credits)

Code	Name	Credits	Edu. level
MF1016	Basic Electrical Engineering	9.0 hp	First cycle
MF1038	Design and Product Realization, Form and Function	6.0 hp	First cycle
MF1039	Design and Product Realization, Components	6.0 hp	First cycle
MG1006	Design and Product Realization - Manufacturing	6.0 hp	First cycle
MJ1112	Applied Thermodynamics	9.0 hp	First cycle
SE1010	Solid Mechanics, Basic Course with Project	12.0 hp	First cycle
SF1633	Differential Equations I	6.0 hp	First cycle
SG1140	Mechanics II	6.0 hp	First cycle

Master, Aerospace Engineering (AEE)

Year 3

Mandatory courses (39.0 Credits)

Code	Name	Credits	Edu. level
EL1120	Automatic Control, General Course	6.0 hp	First cycle
ME1003	Industrial Management, Basic Course <i>Can even be taken during p.1, p.3 or p.4</i>	6.0 hp	First cycle
MF1040	Design and Product Realization Methodology	9.0 hp	First cycle
MH1005	Structural Materials	6.0 hp	First cycle
SF1901	Probability Theory and Statistics	6.0 hp	First cycle
SG1220	Fluid Mechanics for Engineers	6.0 hp	First cycle

Conditionally elective courses

Code	Name	Credits	Edu. level
SA108X	Degree Project in Mechanical Engineering, First Cycle	15.0 hp	First cycle
SD1116	Design of Silent and Vibration-free Products <i>Student must choose SD1116 or SK2371</i>	6.0 hp	First cycle
SK2371	Physics of Visual Impressions, Larger Course <i>Student must choose SD1116 or SK2371</i>	9.0 hp	Second cycle

Supplementary information

One degree project must be chosen

Year 4

Supplementary information

Course list: <http://www.kth.se/student/kurser/program/TAEEM/HT14/arskurs1>

Year 5

Supplementary information

Course list: <https://www.kth.se/student/kurser/program/TAEEM/HT14/arskurs2?l=en>

Master, Vehicle Engineering (FOR)

Year 3

Mandatory courses (39.0 Credits)

Code	Name	Credits	Edu. level
EL1120	Automatic Control, General Course	6.0 hp	First cycle
ME1003	Industrial Management, Basic Course <i>Can even be taken during p.1, p.3 or p.4</i>	6.0 hp	First cycle
MF1040	Design and Product Realization Methodology	9.0 hp	First cycle
MH1005	Structural Materials	6.0 hp	First cycle
SD1116	Design of Silent and Vibration-free Products	6.0 hp	First cycle
SG1217	Fluid Mechanics, Basic Course	6.0 hp	First cycle

Conditionally elective courses

Code	Name	Credits	Edu. level
SA108X	Degree Project in Mechanical Engineering, First Cycle	15.0 hp	First cycle

Supplementary information

One degree project must be chosen

Year 4

Supplementary information

Course list: <http://www.kth.se/student/kurser/program/TFORM/HT14/arskurs1>

Year 5

Supplementary information

Course list: <https://www.kth.se/student/kurser/program/TFORM/HT14/arskurs2?l=en>

Master, Industrial Management (INE)

Year 3

Mandatory courses (33.0 Credits)

Code	Name	Credits	Edu. level
ME1003	Industrial Management, Basic Course	6.0 hp	First cycle
ME2015	Project Management: Leadership and Control	6.0 hp	Second cycle
ME2063	Team Leadership and Human Resource Management	6.0 hp	Second cycle
MF1040	Design and Product Realization Methodology	9.0 hp	First cycle
MH1005	Structural Materials	6.0 hp	First cycle

Conditionally elective courses

Code	Name	Credits	Edu. level
MF120X	Degree Project in Machine Design, First Cycle	15.0 hp	First cycle
MF121X	Degree Project in Integrated Product Development, First Cycle	15.0 hp	First cycle
MF123X	Degree Project in Mechatronics, First Cycle	15.0 hp	First cycle
MG100X	Degree Project in Production Engineering, First Cycle	15.0 hp	First cycle
MJ1401	Heat Transfer <i>Technical profile: Energy; should be taken during year 3</i>	6.0 hp	First cycle
SD1116	Design of Silent and Vibration-free Products <i>Student must choose between SD1116 or SK2371</i>	6.0 hp	First cycle
SK2371	Physics of Visual Impressions, Larger Course <i>Student must choose between SD1116 or SK2371</i>	9.0 hp	Second cycle

Supplementary information

One degree project must be chosen.

There are no prerequisite courses. During year 4 and 5, CDEPR and CMAST students must choose a technical profil from the following topics:

- Energy
- Production
- Machine Design

One technical elective course should be chosen.

Year 4

Supplementary information

Year 4 and 5, please see the master programme: <http://www.kth.se/student/kurser/program/TINEM/HT14/arskurs1>

Year 5

Supplementary information

Year 4 and 5, please see the master programme: <https://www.kth.se/student/kurser/program/TINEM/HT14/arskurs2?l=en>

Track, Concurrent Engineering (IPDB)

Year 3

Mandatory courses (21.0 Credits)

Code	Name	Credits	Edu. level
ME1003	Industrial Management, Basic Course <i>Can be taken during p.1, p.3 or p.4</i>	6.0 hp	First cycle
MF1040	Design and Product Realization Methodology	9.0 hp	First cycle
MH1005	Structural Materials	6.0 hp	First cycle

Conditionally elective courses

Code	Name	Credits	Edu. level
MF120X	Degree Project in Machine Design, First Cycle	15.0 hp	First cycle
MF121X	Degree Project in Integrated Product Development, First Cycle	15.0 hp	First cycle
MF123X	Degree Project in Mechatronics, First Cycle	15.0 hp	First cycle
MG100X	Degree Project in Production Engineering, First Cycle	15.0 hp	First cycle
SD1116	Design of Silent and Vibration-free Products <i>Student must choose between SD1116 or SK2371</i>	6.0 hp	First cycle
SK2371	Physics of Visual Impressions, Larger Course <i>Student must choose between SD1116 or SK2371</i>	9.0 hp	Second cycle

Supplementary information

One degree project must be chosen.
There are no prerequisite courses.

Year 4

Supplementary information

Course list: <http://www.kth.se/student/kurser/program/TIPDM/HT14/arskurs1>

Year 5

Supplementary information

Course list: <http://www.kth.se/student/kurser/program/TIPDM/HT14/arskurs2?l=en>

2 of the Conditionally elective courses must be taken during year 1 or 2

MF2006

MF2023(CDEPR STUDENTS ARE NOT ALLOWED TO TAKE THIS)

MF2038

MG2020

MF2046

Track, Industrial Design Engineering (IPDC)

Year 3

Mandatory courses (33.0 Credits)

Code	Name	Credits	Edu. level
HM1025	Ergonomics in Product Development	6.0 hp	First cycle
ME1003	Industrial Management, Basic Course <i>Can be taken during p.1, p.3 or p.4</i>	6.0 hp	First cycle
MF1025	Model Based Product Development II	6.0 hp	First cycle
MF1040	Design and Product Realization Methodology	9.0 hp	First cycle
MH1005	Structural Materials	6.0 hp	First cycle

Conditionally elective courses

Code	Name	Credits	Edu. level
MF122X	Degree Project in Industrial Design Engineering, First Cycle	15.0 hp	First cycle
SD1116	Design of Silent and Vibration-free Products <i>Student must choose between SK2371 or SD1116</i>	6.0 hp	First cycle
SK2371	Physics of Visual Impressions, Larger Course <i>Student must choose between SK2371 or SD1116</i>	9.0 hp	Second cycle

Supplementary information

One degree project must be chosen

Year 4

Supplementary information

Course list: <http://www.kth.se/student/kurser/program/TIPDM/HT14/arskurs1>

Year 5

Supplementary information

For course list: <http://www.kth.se/student/kurser/program/TIPDM/HT14/arskurs2?l=en>

Students must choose between MF2038 and MF2037

Track, Product Innovation (IPDD)

Year 3

Mandatory courses (21.0 Credits)

Code	Name	Credits	Edu. level
ME1003	Industrial Management, Basic Course <i>Can be taken during p.1, p.3 or p.4</i>	6.0 hp	First cycle
MF1040	Design and Product Realization Methodology	9.0 hp	First cycle
MH1005	Structural Materials	6.0 hp	First cycle

Conditionally elective courses

Code	Name	Credits	Edu. level
MF120X	Degree Project in Machine Design, First Cycle	15.0 hp	First cycle
MF121X	Degree Project in Integrated Product Development, First Cycle	15.0 hp	First cycle
MF123X	Degree Project in Mechatronics, First Cycle	15.0 hp	First cycle
MG100X	Degree Project in Production Engineering, First Cycle	15.0 hp	First cycle
MJ1401	Heat Transfer <i>Technical profile: Energy; should be taken during year 3</i>	6.0 hp	First cycle
SD1116	Design of Silent and Vibration-free Products <i>Student must choose between SD1116 or SK2371</i>	6.0 hp	First cycle
SK2371	Physics of Visual Impressions, Larger Course <i>Student must choose between SD1116 or SK2371</i>	9.0 hp	Second cycle

Supplementary information

One degree project must be chosen.

There are no prerequisite courses. During year 4 and 5, CDEPR and CMAST students must choose a technical profil from the following topics:

- Energy
- Production
- Machine Design

Year 4

Supplementary information

Course list: <http://www.kth.se/student/kurser/program/TIPDM/HT14/arskurs1>

Year 5

Supplementary information

Course list: <http://www.kth.se/student/kurser/program/TIPDM/HT14/arskurs2?l=en>

Track, Combustion Engineering (IPUA)

Year 3

Mandatory courses (21.0 Credits)

Code	Name	Credits	Edu. level
ME1003	Industrial Management, Basic Course <i>Can be taken during p.1, p.3 or p.4</i>	6.0 hp	First cycle
MF1040	Design and Product Realization Methodology	9.0 hp	First cycle
MH1005	Structural Materials	6.0 hp	First cycle

Conditionally elective courses

Code	Name	Credits	Edu. level
EL1000	Automatic Control, General Course <i>Student must choose between EL1000 or EL1120</i>	6.0 hp	First cycle
EL1120	Automatic Control, General Course <i>Student must choose between EL1000 or EL1120</i>	6.0 hp	First cycle
MF120X	Degree Project in Machine Design, First Cycle	15.0 hp	First cycle
MF121X	Degree Project in Integrated Product Development, First Cycle	15.0 hp	First cycle
MF123X	Degree Project in Mechatronics, First Cycle	15.0 hp	First cycle
MG100X	Degree Project in Production Engineering, First Cycle	15.0 hp	First cycle
SD1116	Design of Silent and Vibration-free Products <i>Student must choose between SD1116 or SK2371</i>	6.0 hp	First cycle
SK2371	Physics of Visual Impressions, Larger Course <i>Student must choose between SD1116 or SK2371</i>	9.0 hp	Second cycle

Supplementary information

One degree project must be chosen

Year 4

Supplementary information

Course list: <http://www.kth.se/student/kurser/program/TIPUM/HT14/arskurs1>

Year 5

Supplementary information

Course list: <https://www.kth.se/student/kurser/program/TIPUM/HT14/arskurs2?l=en>

Track, Machine Design (IPUB)

Year 3

Mandatory courses (21.0 Credits)

Code	Name	Credits	Edu. level
ME1003	Industrial Management, Basic Course <i>Can be taken during p.1, p.3 or p.4</i>	6.0 hp	First cycle
MF1040	Design and Product Realization Methodology	9.0 hp	First cycle
MH1005	Structural Materials	6.0 hp	First cycle

Conditionally elective courses

Code	Name	Credits	Edu. level
MF120X	Degree Project in Machine Design, First Cycle	15.0 hp	First cycle
SD1116	Design of Silent and Vibration-free Products <i>Student must choose between SD1116 or SK2371</i>	6.0 hp	First cycle
SK2371	Physics of Visual Impressions, Larger Course <i>Student must choose between SD1116 or SK2371</i>	9.0 hp	Second cycle

Recommended courses

Code	Name	Credits	Edu. level
MF2018	Tribology	6.0 hp	Second cycle

Supplementary information

One degree project must be chosen

Year 4

Supplementary information

Course list: <http://www.kth.se/student/kurser/program/TIPUM/HT14/arskurs1>

Year 5

Supplementary information

Course list: <https://www.kth.se/student/kurser/program/TIPUM/HT14/arskurs2?l=en>

Track, Mechatronics (IPUC)

Year 3

Mandatory courses (30.0 Credits)

Code	Name	Credits	Edu. level
DD1321	Applied Programming and Computer Science	9.0 hp	First cycle
ME1003	Industrial Management, Basic Course <i>Can be taken during p.1, p.3 or p.4</i>	6.0 hp	First cycle
MF1040	Design and Product Realization Methodology	9.0 hp	First cycle
MH1005	Structural Materials	6.0 hp	First cycle

Conditionally elective courses

Code	Name	Credits	Edu. level
EL1000	Automatic Control, General Course <i>Student must choose between EL1000 or EL1120</i>	6.0 hp	First cycle
EL1120	Automatic Control, General Course <i>Student must choose between EL1000 or EL1120</i>	6.0 hp	First cycle
MF123X	Degree Project in Mechatronics, First Cycle	15.0 hp	First cycle
SD1116	Design of Silent and Vibration-free Products <i>Student must choose between SK2371 or SD1116</i>	6.0 hp	First cycle
SK2371	Physics of Visual Impressions, Larger Course <i>Student must choose between SK2371 or SD1116</i>	9.0 hp	Second cycle

Supplementary information

One degree project must be chosen

Year 4

Supplementary information

Course list: <http://www.kth.se/student/kurser/program/TIPUM/HT14/arskurs1>

Year 5

Supplementary information

Course list: <https://www.kth.se/student/kurser/program/TIPUM/HT14/arskurs2?l=en>

Master, Naval Architecture (MRS)

Year 3

Mandatory courses (21.0 Credits)

Code	Name	Credits	Edu. level
ME1003	Industrial Management, Basic Course <i>Can be taken during p.1, p.3 or p.4</i>	6.0 hp	First cycle
MF1040	Design and Product Realization Methodology	9.0 hp	First cycle
MH1005	Structural Materials	6.0 hp	First cycle

Conditionally elective courses

Code	Name	Credits	Edu. level
SA108X	Degree Project in Mechanical Engineering, First Cycle	15.0 hp	First cycle
SD1116	Design of Silent and Vibration-free Products <i>Student must choose between SD1116 or SK2371</i>	6.0 hp	First cycle
SG1217	Fluid Mechanics, Basic Course <i>Student must choose between SG1217 or SG1220</i>	6.0 hp	First cycle
SG1220	Fluid Mechanics for Engineers <i>Student must choose between SG1217 or SG1220</i>	6.0 hp	First cycle
SK2371	Physics of Visual Impressions, Larger Course <i>Student must choose between SD1116 or SK2371</i>	9.0 hp	Second cycle

Recommended courses

Code	Name	Credits	Edu. level
SF1901	Probability Theory and Statistics	6.0 hp	First cycle

Supplementary information

One degree project must be chosen

Year 4

Supplementary information

Course list: <http://www.kth.se/student/kurser/program/TMRSM/HT14/arskurs1>

Year 5

Supplementary information

Course list: <https://www.kth.se/student/kurser/program/TMRSM/HT14/arskurs2?l=en>

Master, Production Engineering and Management (PRM)

Year 3

Mandatory courses (27.0 Credits)

Code	Name	Credits	Edu. level
ME1003	Industrial Management, Basic Course <i>Can be taken during p.1, p.3 or p.4</i>	6.0 hp	First cycle
MF1040	Design and Product Realization Methodology	9.0 hp	First cycle
MG1002	Automation Technology	6.0 hp	First cycle
MH1005	Structural Materials	6.0 hp	First cycle

Conditionally elective courses

Code	Name	Credits	Edu. level
MF120X	Degree Project in Machine Design, First Cycle	15.0 hp	First cycle
MF121X	Degree Project in Integrated Product Development, First Cycle	15.0 hp	First cycle
MF123X	Degree Project in Mechatronics, First Cycle	15.0 hp	First cycle
MG100X	Degree Project in Production Engineering, First Cycle	15.0 hp	First cycle
SD1116	Design of Silent and Vibration-free Products <i>Student must choose between SK2371 or SD1116</i>	6.0 hp	First cycle
SK2371	Physics of Visual Impressions, Larger Course <i>Student must choose between SK2371 or SD1116</i>	9.0 hp	Second cycle

Supplementary information

One degree project must be chosen

Year 4

Supplementary information

Course list: <http://www.kth.se/student/kurser/program/TPRMM/HT14/arskurs1>

Year 5

Supplementary information

Course list: <https://www.kth.se/student/kurser/program/TPRMM/HT14/arskurs2?l=en>

Master, Sustainable Energy Engineering (SUE)

Year 3

Mandatory courses (39.0 Credits)

Code	Name	Credits	Edu. level
ME1003	Industrial Management, Basic Course <i>Can be taken during p.1, p.3 or p.4</i>	6.0 hp	First cycle
MF1040	Design and Product Realization Methodology	9.0 hp	First cycle
MH1005	Structural Materials	6.0 hp	First cycle
MJ1401	Heat Transfer	6.0 hp	First cycle
MJ2424	Computational Methods in Energy Technology <i>Can be taken during year 3 or year 4</i>	6.0 hp	Second cycle
SG1220	Fluid Mechanics for Engineers	6.0 hp	First cycle

Conditionally elective courses

Code	Name	Credits	Edu. level
MJ145X	Degree Project in Sustainable Energy Engineering, First Cycle	15.0 hp	First cycle
SD1116	Design of Silent and Vibration-free Products <i>Student must choose between SK2371 or SD1116</i>	6.0 hp	First cycle
SK2371	Physics of Visual Impressions, Larger Course <i>Student must choose between SK2371 or SD1116</i>	9.0 hp	Second cycle

Supplementary information

One degree project must be chosen

Year 4

Supplementary information

Course list: <http://www.kth.se/student/kurser/program/TSUEM/HT14/arskurs1>

Year 5

Supplementary information

Course list: <https://www.kth.se/student/kurser/program/TSUEM/HT14/arskurs2?l=en>

Master, Sustainable Technology (SUT)

Year 3

Mandatory courses (33.0 Credits)

Code	Name	Credits	Edu. level
ME1003	Industrial Management, Basic Course <i>Can be taken during p.1, p.3 or p.4</i>	6.0 hp	First cycle
MF1040	Design and Product Realization Methodology	9.0 hp	First cycle
MH1005	Structural Materials	6.0 hp	First cycle
MJ2611	Introduction Industrial Ecology	6.0 hp	Second cycle
MJ2613	Sustainable Development	6.0 hp	Second cycle

Conditionally elective courses

Code	Name	Credits	Edu. level
MJ154X	Degree Project in Technology and Sustainable Development, First Cycle	15.0 hp	First cycle
SD1116	Design of Silent and Vibration-free Products <i>Student must choose between SK2371 or SD1116</i>	6.0 hp	First cycle
SK2371	Physics of Visual Impressions, Larger Course <i>Student must choose between SK2371 or SD1116</i>	9.0 hp	Second cycle

Supplementary information

One degree project must be chosen

Year 4

Supplementary information

Course list: <http://www.kth.se/student/kurser/program/TSUTM/HT14/arskurs1>

Year 5

Supplementary information

Course list: <https://www.kth.se/student/kurser/program/TSUTM/HT14/arskurs2?l=en>

Track, Fluid Mechanics (TEMA)

Year 3

Mandatory courses (27.0 Credits)

Code	Name	Credits	Edu. level
ME1003	Industrial Management, Basic Course <i>Can be taken during p. 1, p.3 or p.4</i>	6.0 hp	First cycle
MF1040	Design and Product Realization Methodology	9.0 hp	First cycle
MH1005	Structural Materials	6.0 hp	First cycle
SG1220	Fluid Mechanics for Engineers	6.0 hp	First cycle

Conditionally elective courses

Code	Name	Credits	Edu. level
SA108X	Degree Project in Mechanical Engineering, First Cycle	15.0 hp	First cycle
SD1116	Design of Silent and Vibration-free Products <i>Student must choose between SD1116 or SK2371</i>	6.0 hp	First cycle
SK2371	Physics of Visual Impressions, Larger Course <i>Student must choose between SK2371 or SD1116</i>	9.0 hp	Second cycle

Supplementary information

One degree project must be chosen

Year 4

Supplementary information

Course list: <http://www.kth.se/student/kurser/program/TTEMM/HT14/arskurs1>

Year 5

Supplementary information

Course list: <https://www.kth.se/student/kurser/program/TTEMM/HT14/arskurs2?l=en>

Track, Solid Mechanics (TEMB)

Year 3

Mandatory courses (27.0 Credits)

Code	Name	Credits	Edu. level
ME1003	Industrial Management, Basic Course <i>Can be taken during p.1, p.3 or p.4</i>	6.0 hp	First cycle
MF1040	Design and Product Realization Methodology	9.0 hp	First cycle
MH1005	Structural Materials	6.0 hp	First cycle
SE1025	FEM for Engineering Applications <i>Given as well during p.1 in English</i>	6.0 hp	First cycle

Conditionally elective courses

Code	Name	Credits	Edu. level
SA108X	Degree Project in Mechanical Engineering, First Cycle	15.0 hp	First cycle
SD1116	Design of Silent and Vibration-free Products <i>Student must choose between SK2371 and SD1116</i>	6.0 hp	First cycle
SK2371	Physics of Visual Impressions, Larger Course <i>Student must choose between SK2371 and SD1116</i>	9.0 hp	Second cycle

Supplementary information

One degree project must be chosen

Year 4

Supplementary information

Course list: <http://www.kth.se/student/kurser/program/TTEMM/HT14/arskurs1>

Year 5

Supplementary information

Course list: <https://www.kth.se/student/kurser/program/TTEMM/HT14/arskurs2?l=en>

Track, Sound and Vibrations (TEMC)

Year 3

Mandatory courses (27.0 Credits)

Code	Name	Credits	Edu. level
ME1003	Industrial Management, Basic Course <i>Can be taken during p.1, p.3 or p.4</i>	6.0 hp	First cycle
MF1040	Design and Product Realization Methodology	9.0 hp	First cycle
MH1005	Structural Materials	6.0 hp	First cycle
SD1116	Design of Silent and Vibration-free Products	6.0 hp	First cycle

Conditionally elective courses

Code	Name	Credits	Edu. level
SA108X	Degree Project in Mechanical Engineering, First Cycle	15.0 hp	First cycle

Supplementary information

One degree project must be chosen

Year 4

Supplementary information

Course list: <http://www.kth.se/student/kurser/program/TTEMM/HT14/arskurs1>

Year 5

Supplementary information

Course list: <https://www.kth.se/student/kurser/program/TTEMM/HT14/arskurs2?l=en>



Appendix 2: Specialisations

Degree Programme in Design and Product Realisation (CDEPR)

Master, Aerospace Engineering (AEE)

No information entered.

Master, Vehicle Engineering (FOR)

No information entered.

Master, Industrial Management (INE)

No information entered.

Track, Concurrent Engineering (IPDB)

No information entered.

Track, Industrial Design Engineering (IPDC)

No information entered.

Track, Product Innovation (IPDD)

No information entered.

Track, Combustion Engineering (IPUA)

No information entered.

Track, Machine Design (IPUB)

No information entered.

Track, Mechatronics (IPUC)

No information entered.

Master, Naval Architecture (MRS)

No information entered.

Master, Production Engineering and Management (PRM)

No information entered.

Master, Sustainable Energy Engineering (SUE)

No information entered.

Master, Sustainable Technology (SUT)

No information entered.

Track, Fluid Mechanics (TEMA)

No information entered.

Track, Solid Mechanics (TEMB)

No information entered.

Track, Sound and Vibrations (TEMC)

No information entered.