



MF131X Degree Project in Integrated Product Development, First Cycle 15.0 credits

Examensarbete inom integrerad produktutveckling, grundnivå

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

If the course is discontinued, students may request to be examined during the following two academic years

Establishment

On 15/05/2020, the Dean of ITM the ITM school has decided to establish this official course syllabus to apply from spring term 2021 (registration number M-2020-0996).

Grading scale

P, F

Education cycle

First cycle

Main field of study

Technology

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

According to KTH's established criteria to pass a degree project for a Bachelor's degree, the student should be able to:

1. demonstrate knowledge of the disciplinary foundation of the chosen subject area, applicable methods and orientation in current research and development and show advanced knowledge within some part of the subject area
2. demonstrate the ability to search, collect and use relevant information critically and identify one's needs of additional knowledge
3. demonstrate the ability to formulate, assess and handle problems and critically discuss phenomena, issues and situations
4. demonstrate the ability to plan and carry out assignments with applicable methods within given time frames
5. demonstrate the ability to account for and discuss information, problems and solutions, orally and in writing in dialogue with different groups
6. demonstrate the ability to make assessments considering relevant scientific, social and ethical aspects
7. show the skills that are required for working independently within some part of the technical field of study

Course contents

In the course, knowledge in product development is deepened by studying and analysing how companies or other organisations work with product development projects. A theoretical specialisation in the subject is made by reading literature and carrying out an interview study in one or more organisations. The course is carried out in project form, which implies both independent and joint work. As a starting point, the own interest lies to look more closely on a certain aspect and final product from the course is a scientifically based academic paper with academic requirements of execution and quality.

Specific prerequisites

Completed courses of at least 120 credits in the 5-year engineering programme

Examination

- XUPP - Thesis Project, 15.0 credits, grading scale: P, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

Other requirements for final grade

KTH's established criteria to pass degree project for Bachelor's degree apply:

A literature study has been completed, including a description of applicable methods within the subject area and an orientation in current research and development. The selected method is explained and based on science or proven experience. Relevant knowledge from previous courses is adequately used.

The task of the degree project is largely handled independently. Relevant databases and search tools are used. Relevant literature and knowledge are incorporated in the degree project. The need for further knowledge is discussed.

The degree project contains a clear problem formulation and a progressive handling of it. Relevant phenomena, issues and situations connected to the work are critically discussed. Adequate judgements are made, regarding the research question(s) of the degree project.

The project plan developed during early phases of the degree project has been followed. The task is carried out within the agreed time frame and with the methodology agreed upon. Any changes to the plan or the work have been agreed, between student and supervisor.

The report is well organized and written in a well formulated and coherent language. The citations are relevant, phrased in the student's own wording, and well integrated. The oral presentation and the review, as well as the communication during the work, demonstrate the ability to present and sensitively discuss the work and its conclusions with different parties, such as employers, supervisors, teachers, researchers and students.

The degree project demonstrates judgement abilities, for example to explain, justify, criticize and recommend. Relevant topic-specific assessments based on science or proven experience have been made in the degree project. The degree project reflects on social and ethical aspects, unless this is shown to be irrelevant.

The student familiarizes him/herself with the task and demonstrates the ability to be a part of the working environment where the study was performed. The student shows ability to test and evaluate information in discussions of the task. The student shows initiative and is open for supervision and criticism. The degree project is carried out largely independently.

Transitional regulations

From the spring semester 2021, changed requirements apply to Specific prerequisites.

Students who have started their studies before 01/07/2018 should during a transitional period, until the expiration of the autumn semester 2022, be considered eligible, if either the requirements for special admission requirements that has been set before the spring semester 2021, or the requirements in current official course syllabus is satisfied.

For course offerings starting from the spring semester 2023, only the specific prerequisites of the current official course syllabus will apply.

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.