

Instructions for reflection document (Master of Science in Engineering)

Background and aims

The reflection document is a concluding component of a degree project and is to give the student the opportunity to reflect over the degree project that has been concluded, and over the study programme in its entirety. The document is also an important tool for the board of studies in its work with quality assurance.

The aims of the reflection document are as follows:

- that the student is to reflect over the experiences and lessons learned during the execution of the degree project, with respect to knowledge of the subject, expertise, skills, etc.
- to provide feedback to the examiner, the department, the board of studies and the faculty about how the process around the degree project has progressed
- to provide feedback to the board of studies about how well the teaching leads to the objectives of the programme being satisfied, and prepares the student for his or her subsequent professional life.

Instructions

The reflection document is to be 2-4 pages long. You should in the document reflect over the points below, and may discuss other aspects. The objectives for each study programme are stated in its syllabus, which is available through the following link: <https://liu.se/studieinfo>

The significance of knowledge of the subject for the execution of the degree project

- To what extent has the knowledge of the subject you have gained during the courses given in the programme been sufficient for the execution of the degree project?
- What new knowledge has it been necessary to acquire in order to carry out the degree project?

The significance of your personal and professional skills and the approach you have taken for the execution of the degree project

- To what extent have the courses given in the programme given you the ability to solve problems and take the initiative? To what extent have they given you the ability to take responsibility as required by the degree project?
- To what extent have the courses given in the programme given you the ability to make the ethical assessments within engineering that the degree project required?
- To what extent has the work involved experimentation, simulation, testing, and other investigative activities?
- What resources have you used to find the literature required to carry out the work?
- How much time did you devote to planning the work, and how did the planning help you in the execution of the degree project? How much did the planning report and the mid-way review help you in the execution?

The significance of working in a group and communication during the degree project

- If the degree project has been carried out together with another student, how has the work been divided between you, and how has collaboration worked?
- To what degree has the work been carried out independently of the supervisor and examiner?
- What has been easiest and what has been most challenging when writing the report from the degree project, and when preparing and giving the oral presentation?
- To what extent have your language skills (in English or another language) been sufficient?
- To what extent have the courses of the programme given you the knowledge and skills necessary to examine and comment on the work of someone else, in the role of opponent?

The degree project from an engineer's perspective – planning, development, realisation and operation of technical systems, taking into account commercial and societal needs and demands

- To what extent has it been natural for you to place the degree project into a commercial and societal context, including environmental and other aspects of sustainability?

- Can your degree project be seen as part of the development of products, processes or systems? If so, in what way?

The degree project process

- How has the complete process of completing the degree project within LiU worked? Consider the steps of finding a topic for the degree project, having an examiner and supervisor at LiU assigned to the degree project, writing the planning report and holding the mid-way review, submission and opposition.
- A degree project is to correspond to 20 weeks of full-time work. How well does this correspond to the time you have used?
- In cases in which the degree project has been carried out for an external actor (company or equivalent), how has the process of completing the degree project worked? Consider the aspects of supervision, access to resources in the form of software, computer equipment, and other equipment. To what extent has a requirement for confidentiality been a limitation in the work?

Summary

- In what way has the degree project contributed to satisfying the learning objectives of the study programme?
- What aspect of your degree project gives you the greatest satisfaction, considering both the result and the execution?
- What would you do differently, given the opportunity to repeat the degree project?
- To what extent do you feel ready to embark on a career as engineer?
- If you have any suggestions about how the study programme can be improved, please describe these.

Administration

To be discussed separately.