

Assessment criteria TDDE63 – Advanced Project Course: Information Security

Intended learning outcomes

The course provides the opportunity for deeper study of selected topics within the area of information security, in the form of a project work, which can be of either theoretical or practical nature. The course aims to develop the students' skills in the following areas:

1. identify, analyze, and structure the problems to be addressed in the project,
2. find, evaluate, and explain solutions to problems identified in the project,
3. find, synthesize, and present information from multiple types of sources in the information security area to find structure, and to make original and well-motivated conclusions,
4. actively contribute to a well-functioning project group,
5. demonstrate the ability to lead the project work with the support of a project model, and with limited access to supervisory resources,
6. present project results to an audience with similar general background in information security,
7. plan, follow up, and document the project work

Course content

The project topics are typically related to the contents of the course “Information Security: Privacy, System and Network Security”, and to ongoing research at LiU. The nature of the projects may change from year to year.

Teaching and working methods

The project work will be carried out in groups of at least four students (depending on the number of course participants). Each group will be assigned a supervisor. Assignment of project topics to student groups will be based on preference, as well as group-level fulfillment of project-specific prerequisite knowledge or skills (when applicable).

At the beginning of the project, the team will negotiate a requirements specification together with the supervisor, and develop relevant project management documentation for their project. The projects should be conducted according to an appropriate development model, selected by the team.

The results of the project is presented in a written report, which should be of high quality in terms of technical level and language, and also in an oral presentation. Each group will also present their progress during a half-time oral presentation, as well as during several planned follow-up meetings with the supervisor.

Assessment criteria – module PRA1

Lärandemål	Kriterier för betyg G
1. identify, analyze, and structure the problems to be addressed in the project	Examined by assessment of the project report, which must contain a clear problem description, as well as an appropriate set of research questions, if applicable.
2. find, evaluate, and explain solutions to problems identified in the project	Examined by assessment of the project report, which must describe in detail the solutions to the problems identified in the project. The report must also contain a clear description of the method used.
3. find, synthesize, and present information from multiple types of sources in the information security area to find structure, and to make original and well-motivated conclusions	Examined by assessment of the project report, which must contain a compilation of literature relevant to the project. Synthesized solutions must also be clearly related to existing literature in the field. Furthermore, the method section must describe how the literature search or other information gathering was carried out.
4. actively contribute to a well-functioning project group	Examined through the student group's account of the work process at the mid-term check, as well as at the supervisor's follow-up meetings with the group. For a passing grade, active participation in the work process is required, in accordance with the roles/responsibility areas for each team member established in the project plan/project management document.
5. demonstrate the ability to lead the project work with the support of a project model, and with limited access to supervisory resources	Examined through the student group's account of the work process at the mid-term check, as well as at the supervisor's follow-up meetings with the group. The assessment is performed based on the group's project plan/project management document.
6. present project results to an audience with similar general background in information security	Examined by final presentation, where each group within a given time frame must present the problem and the developed solution at an appropriate level of detail. Furthermore, the presentation shall begin with a suitable introduction to the area, with the aim that an audience that meets the recommended prior knowledge requirements for the course should be able to assimilate the remaining presented material.
7. plan, follow up, and document the project work	Examined by assessment of project plan/project management document and project report. <ul style="list-style-type: none"> - The project plan must, based on a selected project model, adequately describe the workflow, role distribution, as well as realistic milestones and deliverables, based on the requirement specification that has been developed. - Mandatory milestones and deadlines presented at the start of the course must be followed. - Own milestones according to the project plan must be broadly followed, and any deviations must be clearly justified. - The report must be of high quality with respect to language, structure, and technical level.