

DIT092 – Mini Project, 7.5hec, T1, study period 2, 2017

Examiner: Richard Torkar

Course responsible: Björn Olsson

Teaching assistants: Per Bjerke, Ameera Darwish, Laiz Heckmann Barballho de Figueroa, Snezhina Racheva Filip Wallden

Guest lecturers: -

Course content:

The course introduces the students the concepts and practices of software development projects. The course has two general themes: (1) the importance of product, project, and people management; (2) the process of creating software, the skill of programming and working together as a team towards a common goal.

The purpose of this course is to give the students an introduction to the project management area and the tools and techniques used to manage software development projects. The course introduces the students to the human element and discusses people, personalities and dynamics and the way in which they have an impact on IT projects. Areas such as cost estimation, risk management, and project evaluation are also discussed.

Learning outcomes:

- Relate software development to project and product management activities such as project planning and cost estimation.
- Explain the impact of human factors and team dynamics on project efficiency and success.
- Analyze a programming problem and describe the problem in an abstract way.
- Define criteria for project reviews.
- Identify and manage the risks involved in a project.
- Resolve conflicts and negotiate successfully with project members.
- Design and implement an object oriented solution from a problem description.
- Communicate with stakeholders and solicit requirements.
- Work in a project team, divide a project in tasks and dividing tasks among team members.
- Take individual responsibility within a project team.
- Communicate and interact professionally within a project team.
- Communicate results of the project to interested parties in professional ways.

Form of teaching:

The teaching consists of introductory lectures, weekly group meetings, seminars, as well as supervision in connection to the meetings.



Examination:

- 1. Project** (*Projekt*), 4.5 higher education credits Grading scale:
Pass with Distinction (VG), Pass (G) and Fail (U)
- 2. Assignments** (*Inlämningsuppgifter*), 3 higher education credits Grading scale:
Pass (G) and Fail (U)

The course is examined through artifact review and oral examination. The project part is examined by a demonstrable system which is presented orally at a seminar at the end of the course. The project part is also examined by a final written report. The work is carried out in groups of 5-7 students. Furthermore, the student needs to submit a written report where the student shows his or her: artifact contributions to the project and subgroup he/she was a member of, role in the project group, fulfillment of responsibilities for this role in terms of artifacts and activities, interaction and knowledge transfer activities with others, and how this contributed to the project as a whole.

The assignments part, also carried out in groups, is examined on the basis of solutions to compulsory problems handed in during the course and on the basis of relative contribution of the group members.

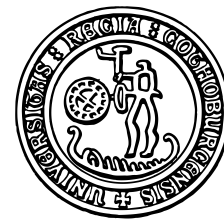
Literature:

This is a project course and therefore no official literature is listed, you are however encouraged to reuse literature from previous courses and discuss with your teacher and TA's regarding any extra literature you might be interested in to help you in your specific project.

Schedule:

We will meet Fridays 8-12 on a weekly basis throughout the course. These four hours will be a mix of supervision and lectures. Outside of this time slot you can schedule supervision with the teaching assistants. As you can see in the schedule above the first few weeks contain formal lectures, after that the entire 8-12 slot will be devoted to project supervision.

| Date/time | Title | | Info. |
|------------|------------------------------|--|----------------------------------|
| 2017-11-03 | Introduction | | |
| 2017-11-10 | Managing projects and people | | Deadline for assignment 1 |
| 2017-11-17 | Business cases | | |
| 2017-11-24 | Project planning | | |
| 2017-12-01 | Delivering quality | | |
| 2017-12-08 | | | |
| 2017-12-15 | | | Deadline for assignment 2 |



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|------------|--|--|---|
| 2018-01-05 | | | Deadlin for handing in the project |
| 2018-01-12 | | | Group Examination |

Miscellaneous:

This is a new course that is being held for the first time in the fall of 2017, therefore there is no feedback or improvements from earlier years.

