



Course syllabus

Faculty of Technology

Department of Computer Science and Media Technology

2DV612 Praktisk agil systemutveckling, 7,5 högskolepoäng

Agile development and engineering practices, 7.5 credits

Main field of study

Computer Science

Subject Group

Informatics/Computer and Systems Sciences

Level of classification

First Level

Progression

G2F

Date of Ratification

Approved by Faculty of Technology 2016-03-11

The course syllabus is valid from autumn semester 2016

Prerequisites

60 credits within Computer Science including the courses 1DV507 Programming and Data Structures, 7.5 credits, 1DV600 Software Technology, 7.5 credits, 1DV607 Object Oriented Analysis and Design using UML, 7.5 credits or equivalent.

Objectives

Upon completion of the course, students are able to:

- explain agile principles
- explain and apply agile development methodologies
- apply agile engineering practices for agile principles.
- select, setup, and use tools for agile system development

Content

The course is a practical course based, in problem-based learning, which emphasizes the importance of the development environment for a successful development project.

The specific project tasks vary from one year to another

Course content

- agile development methods
- agile engineering practices
- tools for requirements, test, and continuous integration and deployment
- tools for configuration management and version control, and issue tracking.

Type of Instruction

Teaching consists of lectures, seminars and self studies. Lectures, assignments and

practical work. The practicals are carried out individually. Required assignments occurs.

Examination

The course is assessed with the grades A, B, C, D, E, Fx or F.

The grade A constitutes the highest grade on the scale and the remaining grades follow in descending order where the grade E is the lowest grade on the scale that will result in a pass. The grade F means that the student's performance is assessed as fail (i.e. received the grade F).

The assessment of student performance is based on the work done in the compulsory projects and the correspondent oral presentations.

Course Evaluation

During the course or in close connection to the course, a course evaluation is to be carried out. The result and analysis of the course evaluation are to be communicated to the students who have taken the course and to the students who are to participate in the course the next time it is offered. The course evaluation is carried out anonymously. The compiled report will be filed at the Faculty.

Other

Grade criteria for the A–F scale are communicated to the student through a special document. The student is to be informed about the grade criteria for the course by the start of the course at the latest.

Required Reading and Additional Study Material

Required reading