Linnæus University

Course syllabus

Faculty Board of Science and Engineering
School of Computer Science, Physics and Mathematics

1DV430 Individuellt mjukvaruutvecklingsprojekt, 7,5 högskolepoäng
Individual Software Development Project, 7.5 credits

Main field of study
Computer Science

Subject Group
Informatics/Computer and Systems Sciences

Level of classification
First Level

Progression
G1F

Date of Ratification
Approved by the Board of the School of Computer Science, Physics and Mathematics 2009-06-23

Revised 2010-08-18. Revision made for English translation of the syllabus and course evaluation.

The course syllabus is valid from spring semester 2011

Prerequisites
Minimum of 30 credits within the field of computer science, computer engineering, informatics or the equivalent.

Expected learning outcomes

The goal of the course is to provide knowledge and practical skills to implement a software project in which functional software is to be developed. After completing the course the student shall be able to:

- analyze a practical problem, find various solutions and choose the appropriate solution based on relevant theories
- plan and implement an individual software project using the Unified Process
- present, communicate and critically examine the results obtained both in writing and oral.

Content

The course is run as a project with the supervisors of the subject areas covered in the study programe.
Major components of the project are:

- iteration planning including prioritizing requirements and risk analysis
- requirements engineering in software projects
- testing Software
- implementation of Software
- presentation of project in a written report and an oral presentation on a seminar.

Type of Instruction

The course combines tutoring, project work and a final presentation. Learning can be done both individually and in groups. Web-based course materials and reference literature are used. Teaching modalities will train students to actively seek, collect and evaluate knowledge, applying knowledge in practice and to present results.

Examination

The course is assessed with the grades U, 3, 4 or 5.
Examination is by assessment the results of the project, report and project documentation. There is mandatory attendance at the presentation and mentoring opportunities.
On request, students may have their credits translated to ECTS-marks. Such a request must be sent to the examiner before the grading process starts.
Additional exams are offered within six weeks under the regular semester periods. The number examinations are limited to five times.

Course Evaluation

A course evaluation will be carried out at the end of the course in accordance with the guidelines of the University. The result of the course evaluation will be filed at the department.

Required Reading and Additional Study Material

Reference Literature
Larman, C ,(senaste upplagan) *Applying UML and Patterns, 3rd edition*, Prentice Hall.

The Required Reading and Additional Study Material are subject to changes.