Linnæus University

Course syllabus

Faculty of Technology
Department of Computer Science

2DV012 Programmering för web 2.0, 7,5 högskolepoäng
Web 2.0 Programming, 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 2009-12-01
Revised 2013-06-14 by Faculty of Technology. Literature list and course evaluation are revised.
The course syllabus is valid from autumn semester 2013

Prerequisites
Problem Solving and Programming 7.5 credits (1DV006), Programming and Data Structures 7.5 credits (1DV007), and Database Theory 7.5 credits (1DV013) or the equivalent.

Objectives
After the course the student should be able to:

- use techniques and platforms for web programming
- work with different techniques on a given platform
- describe techniques and environments for web programming
- use databases for web applications
- describe security and security models in relation to web programming
- use XML and related techniques

Content
The following parts are treated:

- basic web programming
- Web 2.0
- design and layout techniques
- database bindings
- security and user management
- Javascript

- XML
- Ajax
- Web services

Type of Instruction
The teaching methods are based on lectures, lessons and tutoring to the mandatory work. The mandatory work/project can be solved individually or in groups.

Examination
The course is assessed with the grades Fail (U), Pass (G) or Pass with Distinction (VG).
Upon request, a student will get an ECTS grade. The examiner should be informed about this wish before grading.

Assessments of student performance consisti of written and/or oral examinations and/or presentation of mandatory work. The types of assessment used in the course will be decided on at the beginning of the course.

Students who do not pass the regular examination are given the opportunity to do a reexamination shortly after the regular exam.

Course Evaluation
A course evaluation will be carried out and compiled after the course is completed. The compilation will be presented to the current board as well as to the students and filed by the coordinating department.

Required Reading and Additional Study Material
Required reading
Castro, Elisabeth; Hyslop, Bruce; HTML5 & CSS3 Visual QuickStart Guide, 7/E, Peachpit Press, ISBN10: 0321719611

Geary, David; Horstmann, Cary S.; Core JavaServer Faces, 3/E, Prentice Hall, ISBN10: 0137012896