



Course syllabus

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

4DV104 Web services, 7,5 högskolepoäng

Web Services, 7.5 credits

Main field of study

Computer Science

Subject Group

Informatics/Computer and Systems Sciences

Level of classification

Second Level

Progression

A1N

Date of Ratification

Approved by the Board of the School of Computer Science, Physics and Mathematics
2009-12-01

Revised 2010-11-26. Revision made for prerequisites and course evaluation.

The course syllabus is valid from autumn semester 2011

Prerequisites

90 credits in Computer Science or equivalent.

Expected learning outcomes

Upon completion of the course, the student should be able to:

- understand advanced state-of-the-art technology and standards for the development of Web Services
- relate them to general processes and architectures in software engineering
- apply them in the development of distributed systems

Content

The course gives an overview of Web Services technologies and standards. Also it provides hands-on practical experiences in current implementation in the C# / .Net / Windows as well as in the Java world.

The course covers the following topics:

- introduction to Web Services
- web Services Architecture
- basic technologies: XML-schema and namespaces, SOAP, WSDL and UDDI
- platforms for Java and C# based Web Services
- development and use of Web Services

- composition and interoperability
- security

Additionally, novel approaches to compiling will be selected at the start of the course and added to the course contents.

Type of Instruction

Lectures, seminars and self studies.

Examination

The course is assessed with the grades Fail (U), Pass (G) or Pass with Distinction (VG).

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.

Assessments of student performance consists of written and/or oral examinations and/or presentation of mandatory assignments. The assessment method will be decided at the start of the course.

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

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.

Other

Upon request, a Swedish University degree will be issued upon successful completion of the full demands for that degree.

Students who receive a passing grade in the course may download a course certificate through the Student Portal. Otherwise they may request a course certificate from the school secretary.

Required Reading and Additional Study Material

Required reading

Relevant literature will be selected together with the supervisor and examiner.