



DD243V Program Development Techniques with the .NET Framework 7.5 credits

Programutvecklingsteknik med -NET Framework

This is a translation of the Swedish, legally binding, course syllabus.

If the course is discontinued, students may request to be examined during the following two academic years

Establishment

Course syllabus for DD243V valid from Spring 2007

Grading scale

A, B, C, D, E, FX, F

Education cycle

Second cycle

Main field of study

Specific prerequisites

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

Upon completing this course, the student should be able to

- use the C# language to develop software
- explain the difference between C#, C++, Java, assembler and IL
- use Visual Studio as development environment
- use MSDN as knowledge base* look up answers in the .NET API
- use the GUI builder for rapid development
- develop web software with ASP.NET
- use XML as data source
- develop web services
- automatically generate and use client code for web services
- write web pages that interacts with web services

Course contents

- The C# language, compiling and IL.
- Visual Studio as GUI builder - strength and weaknesses.
- Connecting and storing to database. Transaction security.
- ASP.NET web technology.
- XML as data carrier - how is it used in the industry. Advantages and disadvantages with XML.
- Web services.

Disposition

- Lectures 24h
- Laboration 32h

Examination

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

Other requirements for final grade

Laboratory assignments (LAB1; 2 cr., LAB2; 3 cr.)

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.