ID1353 Object Oriented Programming using C# and .NET 7.5 credits

Objektorienterad programmering med C# och .NET

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

Establishment

Course syllabus for ID1353 valid from Autumn 2008

Grading scale

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

Education cycle

First cycle

Main field of study

Information Technology, Technology

Specific prerequisites

The basic knowledge of computer use and some programming habit within some programming language.

Language of instruction

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

Intended learning outcomes

The course will give a well knowledge in syntax and the technique of programming in object-orientated programming language C#(C-sharp) and the foundations of .NET Frame-work/Class library. The course will further give an understanding for and use of conceptions which are in object-orientation and how are these supported in C#.
This means that the course participant will after the review of the course:

- Understand and have a good command of object-oriented conceptions/design and use these in C# programming language

- Be able to use and reuse the C# class library

- Be able to create Graphical User Interface (GUI) in C#

- determine data structture to store different types of information and be able to diskuss the advantages and disadvantage of these different store possibilities.

Course contents

- The foundation of object
-orientation (inheritens, interface, class, polymorphism, methods, properties, overloading operators, object etc)
- A simple model description of source code with UML
- Introduction to Graphical User Interface(GUI) components
- Data types
- Basic data structure(array, ArrayList, generic list)
- Simple I/O
- Exception
- Delegates and Events

Course literature

C# to the Point, Hanspeter Mössenböck
Upplaga: Förlag: Pearson/Addison Wesly År:
ISBN: 032125290X

Examination

- TEN1 - Examination, 3.0 credits, grading scale: A, B, C, D, E, FX, F

- LAB1 - Laboratory Work, 4.5 credits, grading scale: A, B, C, D, E, FX, F

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.

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

Other requirements for final grade

Grading scale: A/B/C/D/E/Fx/F

Passed examination (TEN; 3p)Passed assignments/project task (LAB1; 4,5p)

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.