



# ID2016 Internet Programming IV 7.5 credits

## Internetprogrammering IV

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 ID2016 valid from Spring 2009

## Grading scale

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

## Education cycle

Second cycle

## Main field of study

## Specific prerequisites

**För fristående studerande gäller följande behörighetskrav:**

- Grundläggande högskolebehörighet, dvs avslutad gymnasieutbildning inkl svenska och engelska el motsv och
- Kandidatexamen/180 hp (120 gamla poäng) i informationsteknik, informationssystem, datateknik eller data- och systemvetenskap.

# Language of instruction

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

# Intended learning outcomes

Upon completion of the course the student should be able to construct programs (with various techniques) that communicate over Internet with specific XML-based protocols.

# Course contents

- Extensible Markup Language (XML)
- Distributed processes
- Mobile units with Java Micro Edition (J2ME) with Connected Limited Device Configuration (CLDC) 1.1 and Mobile Information Device Profile (MIDP) 2.0

For a more detailed description see:

<http://dsv.su.se/~pierre/i/>

# Disposition

This is a distance learning course and the pedagogy for this course is assignment based learning with a large element of freedom in the problem solving process. The course brings up a large subject area by presenting a set of assignments where each assignment:

- Focuses on one sub area at a time to increase understanding and to reduce complexity
- Is specified in a general way to motivate alternative, possibly deeper, solutions

The course requires the skill to work alone but has a large element of interactivity by continuous and direct support from tutors at distance.

# Course literature

Preliminary

McLaughlin: Java & XML (Edition: 2), O'Reilly, 2001

# Equipment

PC.

# Examination

- INLA - Assignment, 3.0 credits, grading scale: P, F
- INLB - Assignment, 3.0 credits, grading scale: P, F

- INLC - Assignment, 1.5 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.

A number of practical assignments must be made. They are divided into three parts:

- Part 1: Introductionary fixed assignments (P/F)
- Part 2: More advanced less fixed assignments (P/F)
- Part 3: A summarizing free assignment (and voluntary assignments) (A/B/C/D/E/Fx/F).

Note that the total grade is determined by the grade on part 3.

## 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.