



HI2004 Programming of Mobile Services 7.5 credits

Programmering av mobila tjänster

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 HI2004 valid from Autumn 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

The course aims at give knowledge about programming of mobile services with J2ME and providers SDK. The course consists of two parts, a theoretical part and an applied part: - In the theoretical part gives knowledge about what possibilities that exist regarding development of future mobile services.- In the applied part applications is developed using providers SDK for J2ME After completing the course the participant should:

- be able to configure a proper environment for development
- be able to explain de differences between J2ME and J2SE
- be able to write a MIDlet application and describe its lifecycle
- be able to use forms and canvas in order to present data
- be able to use Bluetooth or other network technology in order to communicate
- be able to use and store persistent data and PIM
- be able to understand the possibility and limitations when developing applications
- be able to explain and usefulness of XML based protocols like WAP, MMS and RSS

For higher grades the course the participant should:

- be able to reflect over future developing of Java Micro Edition
- be able to use game canvas in a optimized way
- be able to review and value mobile services regarding performance and security

Course contents

· Historic· Mobile network· Mobile platforms· Programming J2ME·
GUI programming med J2ME· Developing tools· XML in mobile system·
WAP· Future and research with mobile services· Security

Course literature

Titel: Enterprise J2ME, Developing mobile Java applications, Författare: Yuan, ISBN: 0-13-140530-6, Förlag: Addison Wesley

Ev ändringar meddelas senast en månad före kursstart

Examination

- LAB1 - Laboratory Work, 3.0 credits, grading scale: A, B, C, D, E, FX, F
- LAB2 - Laboratory Work, 4.5 credits, grading scale: P, 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.

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.