



ID2216 Developing Mobile Applications 7.5 credits

Utveckling av mobila tillämpningar

Course syllabus for ID2216 valid from Autumn 08

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

Grading scale: A, B, C, D, E, FX, F

Education cycle: Second cycle

Main field of study: Information Technology, Information and Communication Technology

Intended learning outcomes

The students shall after the course be able to:

- describe the structure of mobile networks
- explain limitations of mobile networks and terminal
- explain and compare technologies used in application development
- explain service layer support for security, billing, positioning and provisioning
- identify and explain the critical issues in application requirements
- choose appropriate technology given requirements of application
- implement applications using appropriate tools

Course main content

The course focuses on applications for cellular mobile networks and include:

- an overview of mobile networks
- wireless application protocols
- messaging infrastructure and protocols
- terminal platforms
- browser based application development
- terminal based application development
- content adaptation
- security and authentication
- content provisioning

billing infrastructure

positioning technology

The course has a set of lectures and seminars but much time will also be spent developing applications. The software development tools, are freely downloaded SDKs. In the seminars the students implement small mobile applications using different technologies. Students then work in smaller groups with a larger assignment. The assignment. The application should be presented in written and oral form by the end of the course.

Language of instruction

Language of instruction is specified in the course offering information in the course and programme directory.

Eligibility

Courses in network technology and courses in programming. The course requires that you can quickly learn a new programming language and create simple applications without help

Literature

Research papers, standards and programming guides related to the area of mobile applications. All material will be available on the Internet.

Examination

- ANN1 - Assignment, 3.0 credits, grading scale: A, B, C, D, E, FX, F
- TEN1 - Examination, 4.5 credits, grading scale: A, B, C, D, E, FX, F

Requirements for final grade

The examination consists of a written examination and practical assignments. Assignments should be done and presented when scheduled. Final grade is based on the performance of the written exam and the practical assignments.