



Course syllabus

Faculty of Technology
Department of Computer Science

2DV16U Android för Javaprogrammerare, 7,5 högskolepoäng
Android for Java Programmers, 7.5 credits

Main field of study

Computer Science

Subject Group

Informatics/Computer and Systems Sciences

Level of classification

First Level

Progression

G2F

Date of Ratification

Approved by Faculty of Technology 2014-09-22
The course syllabus is valid from autumn semester 2014

Prerequisites

60 credits including Operating Systems 7.5 credits (1DV012), and Object-Oriented Software Engineering 15 credits (1DV101) or equivalent.

Objectives

Upon completion of the course, the student should be able to:

- describe the specific properties of the Android Operating System
- efficiently use the emulator that comes with the development environment
- develop user-friendly Android applications
- describe the life cycle of different application types
- setup a database that can be accessed from different applications
- create and handle processes running in the background
- develop GPS- and Map-based applications
- develop high-quality applications ready to be published.

Content

Android is a Operating System designed for "small" computer devices. The course gives and introduction to Android with special focus on the development of Android applications.

The course contains:

- Introduction to the Android Operating System
- The Android-emulator and how it is used in Android application development
- GUI design in Android
- Handling of maps and location-based services in Android

- Process handling in Android
- Persistent Storage in Files and Databases
- Publishing Android applications

The final part of the course is an individual project chosen in consultation with the teacher.

Type of Instruction

Lectures, seminars and self studies.

Examination

The course is assessed with the grades Fail (U), Pass (G) or Pass with Distinction (VG).

On request, students may have their credits translated to ECTS-marks. Such a request must be sent to the examiner before the grading process starts.

Written examination and/or written and practical assignments which are presented orally and/or in written form. The assessment method will be decided at the start of the course.

Students who do not pass the regular examination are given the opportunity to do a resit examination shortly after the regular examination.

Course Evaluation

A course evaluation will be carried out at the end of the course in accordance with the guidelines of the University. The result of the course evaluation will be filed at the department.

Other

Upon request, a Swedish University degree will be issued upon successful completion of the full demands for that degree.

Students who receive a passing grade in the course may download a course certificate through the Student Portal. Otherwise they may request a course certificate from the school secretary.

Required Reading and Additional Study Material

Required reading

Relevant literature will be selected together with the supervisor and the examiner.