



IS1351 Computer Servers in Local Networks 9.0 credits

Serveradministration i lokala nätverk

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

Establishment

Course syllabus for IS1351 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

Language of instruction

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

Intended learning outcomes

The main goal of the course is to give the student practical experience, knowledge and skills that are required to understand, install and maintain different types of servers in a local network. The purpose with the computer network is to serve a small-generalized local company's work process with modern IT technology. The course should also prepare for further studies within design and implementation of servers in production environments in global companies. Thus after the course, the participant should be able to: Explain usage of different server technologies in a local computer network. Apply different server technologies to fulfil wanted IT services in a specific local computer network. Discuss advantages and disadvantages regarding centralized and local administration. Apply directory services to administrate a local computer network. From a given problem be able to propose a design of a local computer network and be able to implement the proposed solution

Course contents

Core services offered by Windows and Unix (Solaris)

- Account management
- Common IT services in computer networks such as:
 - Active Directory
 - LDAP
 - DNS
 - File sharing services
 - Remote installation services
 - Software distribution

Course literature

Unix System Administration Handbook, NEMETH, EVI & SNYDER, GARTH & SEEBASS, SCOTT & HEIN, TRENT

Upplaga: 3 Förlag: Prentice-Hal År: 1999

ISBN: 0-13-020601-6

Articles published on Internet, links will be published on the course web site.

Examination

- TEN1 - Examination, 3.0 credits, grading scale: A, B, C, D, E, FX, F
- LAB1 - Laboratory Work, 6.0 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

Exam 3 hp Written exam that covers the theories discussed in the the course. Mark: Ungraded (Failed/passed)

Labs 6 hp Practical lab tasks, the possibility to carry out labs is limited to the course periods. Mark: Graded (A-F)

Final mark is based on the lab mark, assumes a passed exam

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.