



Course syllabus

Faculty Board of Science and Engineering

School of Computer Science, Physics and Mathematics

1DV417 Linuxadministration I, 7,5 högskolepoäng

1DV417 Linux Administration I, 7.5 credits

Main field of study

Computer Science

Subject Group

Informatics/Computer and Systems Sciences

Level of classification

First Level

Progression

G1F

Date of Ratification

Approved 2009-06-23

Revised 2010-08-20 by School of Computer Science, Physics and Mathematics.
Revision made for English translation of the syllabus, prerequisites and course evaluation.

The course syllabus is valid from spring semester 2011

Prerequisites

Network technology I (1DV414), 7.5 credits or equivalent.

Objectives

After the course the student will be able to:

- install and maintain a Linux-based system
- automate daily administrative tasks and installations of Linux
- manage and install several of the most common services in Linux

The areas that the student should have knowledge of after the course if finished:

- installation
- automating installations
- administration
- services - including NIS, NFS, SAMBA, DNS, DHCP and backup
- script Programming - BASH
- security - security for various services.

Content

- installation and automating Linux installations
- administration of Linux Systems
- services, including, NIS, NFS, SAMBA, DNS, DHCP, and backup
- script Programming with BASH
- how security is applied to the areas that the course is going through.

Type of Instruction

Teaching consists of lectures and laboratory exercises. Grades are given for completion of the course and based on the results of written examination. Participation in lab is mandatory.

Examination

The course is assessed with the grades U, 3, 4 or 5.

The grades are G (pass) and U (fail) for laboratory work. The grades are 5 (five), 4 (four), 3 (three) and U (fail) for the written examination.

To receive a final grade less than grade 3 on the exam and grade G on labs. Student at Linnaeus University are entitled to have their scores of course translated into the seven-point ECTS scale. In order to get their scores translated, the student should submit a request to the teacher at the beginning of the course.

Reexamination is offered within six weeks under the regular semester periods. The number of examinations are limited to five times.

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.

Required Reading and Additional Study Material

Required Reading

Nemeth, E., Snyder, G., & Hein, T.R. (2006). *Linux administration handbook*. Prentice Hall

Reference Literature

Sarwar, S.M., Koretsky, R., & Sarwar, S.A. (2006). *Linux: The Textbook*. Addison Wesley Publishing Company

The Required Reading and Additional Study Material are subject to changes.