



Course syllabus

Faculty Board of Science and Engineering
School of Computer Science, Physics and Mathematics

1DV421 Linuxadministration II, 7,5 högskolepoäng
Linux Administration II, 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 by the Board of the School of Computer Science, Physics and Mathematics
2009-11-19

Revised 2011-08-20. Revision made for English translation of the syllabus and course evaluation.

The course syllabus is valid from autumn semester 2011

Prerequisites

30 credits in Computer Science including 1DV417 Linux Administration I, 7.5 credits or equivalent.

Expected learning outcomes

The course gives the student knowledge about administration of Linux-based operating systems, installation of several of the more advanced services in a Linux operating system, centralized management of users and services as well as security for these services. Through these skills students are expected after the course to be able to manage and administer the operating system and associated services.

Content

Elements of the course:

- Installation and Administration of services
- Remote storage
- Webserver
- Mailserver
- Clustering
- Load Balancing
- Centralized administration
- Scripting and using regular expressions

Type of Instruction

Teaching consists of lectures and laboratory exercises. The course includes practical and theoretical aspects.

Computer exercises are held on campus and presented in report form. In these laboratory work the student is presented with problems and they are solved individually or in groups.

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 the student must receive grade 3 on the exam and grade G on labs.

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.

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

Reference Literature

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

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

Bloom, R.B. (2002). *Apache Server 2.0 the Complete Reference*. McGraw-Hill/Osborne Media

Costales, B., Jansen, G., & Shapiro, G.N. (2004). *Sendmail 8.13 Companion*. O'Reilly Media