Linnæus University

Course syllabus

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

1DV427 Effektiviserad drift av datorsystem, 7,5 högskolepoäng
Managing Efficient Computer Systems, 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
1DV418 Network Technology II, 7.5 credits, 1DV424 Windows Administration II, 7.5
credits, 1DV421 Linux Administration II, 7.5 credits and 1DV425 Network Security 7.5
credits or equivalent.

Expected learning outcomes
The course aims to give students an understanding of management and maintenance of
networks and servers with focus on operation, status monitoring and control of the
network drives and servers. The course includes also the installation and configuration
of associated surveillance tools.

Through these skills students are expected, after completing the course, independently
be able to give an explanation of the factors that affect the management and monitoring
of computer/network system, its security and to analyze environments for efficient and
secure operation of computer systems.

Content
Elements of the course:

- Administration and checking the status of server
- Administration and state control of the network drive
- Protocols for the control of management l

- Generating statistics for computer system status

Type of Instruction
Teaching consists of lectures, labs and projects. The course includes practical and theoretical aspects. Laboratory work conducted in some of the theoretical aspects as given in the course. In these laboratory work the student will face proglems that he/she must solve alone or in a group.

Examination
The course is assessed with the grades U,3,4 or 5.
For grade 3, the expected learning outcome has to be achieved

Grades are given for completion of the course and based on the results of written examination.
Labs and project is mandatory. The grades are G (pass) and U (fail) for laboratory work. The grades are G (pass) and U (fail) for projects. The grades are 5 (five), 4 (four), 3 (three) and U (fail) for the exam. To receive a final grade the student must achieve at least grade 3 on the exam and grade G on laboratory work and projects.

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 offered within six weeks as part of regular terminsstider. The number examination opportunities is 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
Douglas R. Mauro & Kevin J. Schmidt (2005). *Essential SNMP*. O'Reilly