EP2300 Management of Networks and Networked Systems 7.5 credits

Nätverkshantering

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

If the course is discontinued, students may request to be examined during the following two academic years

Establishment

Course syllabus for EP2300 valid from Autumn 2007

Grading scale

A, B, C, D, E, FX, F

Education cycle

Second cycle

Main field of study

Electrical Engineering

Specific prerequisites

General admission requirements

Language of instruction

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

Intended learning outcomes

After taking the course, students will understand the importance of management in the context of networks, services and distributed systems. They will know the current approaches to manage different technologies and the role of standardization. Finally, they will be able to design and implement simple management functions on a real system.

Course contents

The lectures are given at IT-University in Kista and are telecast live to the KTH campus in Stockholm. (See course web site for details.)

The lectures are complemented by programming assignments, which can be performed on-line and do not require lab presence. (See course web site for details.)

Classical topics:

- SNMP-A Management Protocol and a Framework
- Other Management Frameworks (e.g., TMN)
- Management Paradigms (e.g., Management by Delegation)

Modern topics:

- Decentralized Management Systems
- Self-Configuration and Self-Management
- Management of Internet and Web Services
- Policy-based Management

Course literature

The course is not based on a specific textbook. For an introduction into SNMP, which covers only a part of the course, I recommend William Stallings: SNMP, SNMPv2, SNMPv3, and RMON 1 and 2, Addison-Wesley Pub Co; ISBN: 0201485346; 3rd edition (1998).

Examination

- TEN1 - Examination, 7.5 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.

Other requirements for final grade

Written examination (2.5 credits)
Lab projects (2.5 credits)

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.