



EP2940 Internet Services and Traffic Measurements 7.5 credits

Internettjänster och trafikmätningar

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

Establishment

Course syllabus for EP2940 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

Language of instruction

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

Intended learning outcomes

Multimedia services such as IPTV, IP telephony and video communication are becoming more and more widespread in IP networks. This development has also increased the need for measurements of performance parameters, network management and new Internet service architectures. After completing the course the participants should be able to

- analyze requirements for multimedia network services,
- explain and analyze different service architectures,
- understand and use the Simple network management protocol (SNMP),
- understand and use methods and tools for network monitoring and traffic measurements.

Course contents

- Internet services: IP telephony, Session initiation protocol (SIP), IPTV, video communications, peer-to-peer communication and Web services,
- New service architectures, e.g. Differentiated services and Integrated services,
- Methods and tools for network monitoring and measurements,
- Measurements and verification of performance and quality of service on the network and application levels in IP networks,
- Simple network management protocol (SNMP),
- Network management information structure and traffic measurements,
- Review of research and development in the field.

Course literature

Special material.

Examination

- RED1 - Assignment, 4.5 credits, grading scale: A, B, C, D, E, FX, F
- LAB1 - Laboratory Work, 3.0 credits, grading scale: P, 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

Passed written exam
(RED1, 4.5p), grades A-F
Passed lab assignments
(LAB1 3p), grades pass or fail
Total grades A-F

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.