

2010-10-27 updated 2010-11-15

Course Program

ETSF10 Internet Protocol(s)

Internet and internet related protocols have evolved to constitute the common network structure for all data and telephone communication. This course gives an overview over these protocols and a deepening into some of them.

The course is optional for C4, D4, E4, and the Wireless Master Program. It is followed by C2 students as part of the course ETF05.

Literature

In this course we use Behrouz A. Forouzan, Data Communication and Networking, 4th edition, McGraw-Hill, ISBN 0-07-296775-7

In the Study Guideline found on the course's web page you can see which parts of the book that are included in the course.

Structure

The course is defined by the study guide to the textbook and the contents of lectures, exercise seminars and laboratory projects.

The course is divided into three parts, each consisting of two lectures, one exercise seminar, and one laboratory project. Included in each part is a quiz (dugga). This gives in total

- six lectures
- three exercise seminars
- three mandatory laboratory projects
- three quizzes (duggor)

Participation in the quizzes is optional.

The course ends with an written exam. This exam is optional if you have passed the three quizzes and is satisfied with grade 3 on the course. For details on examination and grading see below.

The time frame for the three laboratory projects will overlap vastly, which hopefully gives enough room for adaption to other parallel courses.

Laboratory projects

There will be three laboratory projects (not necessarily in this order).

- TCP
- Routing
- DNS

Each project will end with a written laboratory report. The projects can be performed remotely or using your own computer. Supervisors will be available during the projects. Open house will be

announced on the course home page. To pass a laboratory project the report has to be accepted. Each project will have a time frame of approximately 3 weeks.

Detailed information about the laboratory projects such as tutorials, guides, sample code and report templates will be found on the course home page.

Examination and grading

In the course there are three quizzes. These are performed via the department's moodle system at URL moodle.eit.lth.se. Each quiz is 2 hours long. The quizzes will be open and available for three days each. During this time window you can start taking the quiz once. Once you have started taking the quiz you have two hours to answer the questions and submit the quiz. This is much like a normal quiz or exam, except for the fact that you can start taking the quiz at any time within the quiz time window.

The course ends with a written exam (tenta). This exam is a normal written exam and it is divided into two parts, part A for grade 3 and part B for grade 4 and 5.

For passing the course with grade 3 you have to

- pass the three laboratory projects
- pass all three quizzes **or** pass the final exam part A with grade 3

For passing the course with grade 4 or 5 you have to

- pass the three laboratory projects
- pass all three quizzes and pass the final exam part B with grade 4 or 5 **or** pass the final exam part A with grade 3 and part B with grade 4 or 5

Questions for the written exam as well as for the quizzes will mainly be picked from a pool of selected text book Review Questions and Exercise. Other questions will be added, but they will follow the form of the questions found in the textbook. Therefore there is no need for example exams.

Bonus programmes

In the course there will be two bonus programmes.

For each passed quiz you get 10% of the points needed for pass on the final exam as bonus points.

Example:

2 passed quizzes, pass final exam with 50 points or more -> bonus points = $2 * (10\% * 50) = 10$ bonus points. These bonus points do not apply to the part of the final exam covering the extended reading material. (3 passed quizzes makes you pass the course with the grade 3, as stated before).

A well carried out project can give up to 10% of points needed to pass the corresponding quiz. A well carried out project is one that delivers a well structured report in time, a project that discusses the assignments in a way that show that you have understood issue and that you have penetrated it, the report has no or only minor fixes after first review and the group members work well together. The number of visits to Open Office hours is of minor concern, as long as the questions you ask and the problems you discuss shows that you have considered the assignments and are doing all your best to solve them in a well structured manor.

The bonuses only apply to the course instance you are registered on. The project bonus only applies to quizzes given during the course instance that you are registered on. The final exam bonus only applies to the final exam and re-exams given during the course instance that you are registered on.

Schedule

The dates for the Laboratory Projects and the Mid Terms are preliminary and can be changed.

Lectures		
Lecture 1	2010-10-25	
Lecture 2	2010-10-26	
Lecture 3	2010-11-08	
Lecture 4	2010-11-09	
Lecture 5	2010-11-22	
Lecture 6	2010-11-23	
Exercise Seminars		
Exercise 1, group 1	2010-10-27	
Exercise 1, group 2	2010-10-28	
Exercise 2, group 1	2010-11-10	
Exercise 2, group 2	2010-11-11	
Exercise 3, group 1	2010-11-24	
Exercise 3, group 2	2010-11-25	
Laboratory Projects	opens	closes
Routing	2010-10-27	2010-12-10
TCP	2010-11-10	2010-12-03
DNS	2010-11-24	2010-12-10
Examination	opens	closes
Quiz/Dugga 1	2010-11-05	2010-11-07
Quiz /Dugga 2	2010-11-19	2010-11-21
Quiz /Dugga 3	2010-12-03	2010-12-05
Written exam/Tenta	2010-12-17	

Course Home Page and moodle

The course's home page is found on URL <http://www.eit.lth.se/course/etsf10>. The course also has an instance at the department's model system at URL <http://moodle.eit.lth.se>. Here you take the quizzes, and there are also forums for laboratory projects questions and answers.

Course Staff

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Disclaimer

This is a new course. This implies late changes of deadlines and syllabus. Changes will be kept to a minimum and well communicated. Any comments and suggestions are most welcome, during the course as well as after.