S-38.192 Network Service Provisioning
Lecture1: Introduction to course syllabus
Status

- Course is under construction
  - One of the lecturers has left the course
  - We decided to put things in new shape
    - New theme
    - New lectures
    - New exercises
    - More challenges

- Course is
  - 2 credits in old system
  - Probably four in new system
  - Valid for PhD and MSc students
Organisation

- **Lectures**
  - **Idea:** introduce technologies which could be used to run provider network and what are their trade-offs
  - Total number of lectures is still open but estimate is twelve
    - First lecture 27.1.2005

- **Exercises**
  - **Idea:** to design and simulate provider network
    - You need to make design choises which will eventually affect the outcome of your network
  - Done with ITGuru simulator
    - Introduction to ITGuru
      - 26.1.2005 1400-1600
  - Total number of exercises is still open but estimate is five to six
Theme

- How you build and run provider network
  - ISP
  - Carrier
- What are the technologies you need to choose from
  - L2
    - Core/Access
  - L3
    - Routing
- How you build your network to be resilient
Material

- **Course textbook**
  - Geoff Huston
    - ISP Survival Guide: Strategies for Running a Competitive ISP
  - Selected parts from the book

- **Other material**
  - Exercise notes
  - Additional reading referred on course web-page
Personel

• **Lecturers**
  - Lic.Tech. Marko Luoma
    • Reception on Thursdays 0930-1030
    • Email reception on Thursdays 0930-1100
  - Lic.Tech. Mika Ilvesmäki

• **Assistants**
  - Johanna Antila
  - Timo Viipuri
  - No receptions
  - Primary channel for communication
    • Email
    • News postings are answered only occasionally
Exercises

- Held in Maarintalo classroom Maari-A
- Timetable in course web page
- Introduction to used software
  - 26.1.2005 1400-1600
- Form quarter of course grade
- Group works of 4 people
  - Work is iterative
    - Each exercise builds upon previous ones
    - Final exercise covers the whole provider network
Grading

• Exams
  – Normal grading

• Exercises
  – Normal grading

• Course
  – $\frac{3}{4}$ from exam grade + $\frac{1}{4}$ from exercise grade
    • Both parts have to be passed with minimum of 1