



**S-38.192 Verkkopalvelujen tuotanto**  
**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



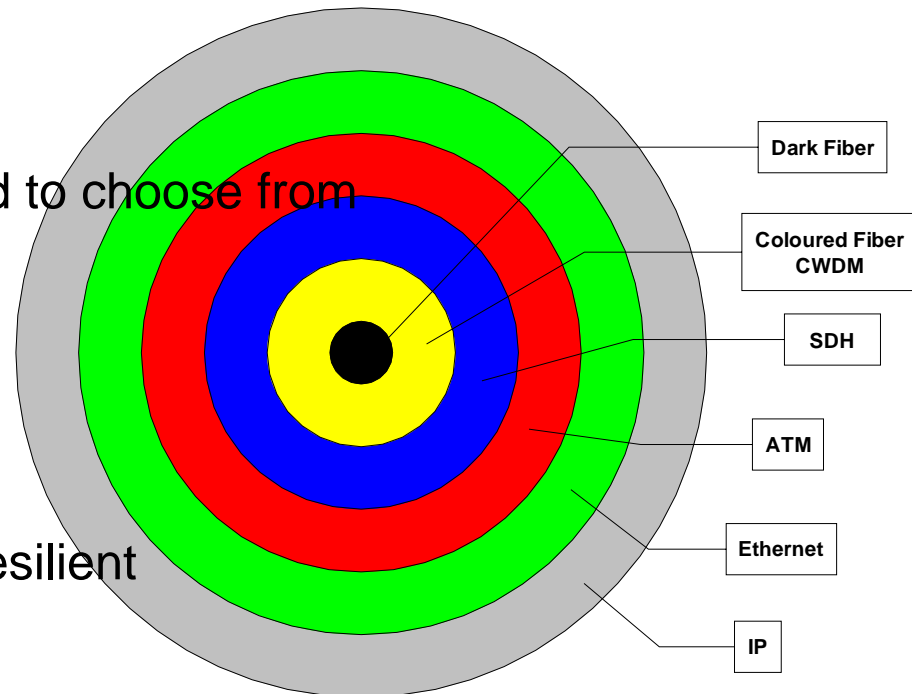
# Organisation

- **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 choices 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

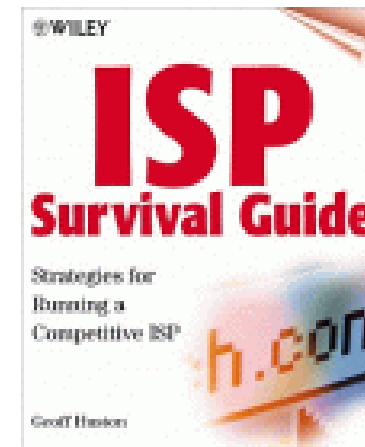
- How you build and run provider network
  - ISP
  - Carrier
- What are the technologies you need to choose from
  - L2
    - Core/Access
  - L3
    - Routing
- How you build your network to be resilient





# 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