Introduction to LMAND / PRLC

Fulvio Risso

http://staff.polito.it/fulvio.risso/
Outline

- Teachers
- Course mission
- Course outline
  - Labs and in-class exercises
  - Exam rules
  - Exam sessions
- Logistic
Teachers

- Course responsible
  - Fulvio Risso (fulvio.risso@polito.it)
- Main professor
  - Piero Nicoletti (piero@studioreti.it)
- Labs and exercises
  - Andrea Vesco (andrea.vesco@polito.it)

Please contact the correct person when you have questions
Course mission

The course aims to present the most important technologies related to Local and Metropolitan Area Networks, and give some information about how to engineer these infrastructures.

Additional topics include Cabling, Data Centers, and Wireless LANs.
Course Outline

- High Speed Ethernet
- Bridging and Spanning Tree
- Switching
- Design of Switched Networks
- Advanced Topics (Rapid Spanning Tree, 802.1?)
- VLAN
- L3 Switching
- Design of Campus Networks
- Data Centers
- L7 switching
- Cabling
- Wireless LAN
Lab and in-class exercises

- Lab is very important
  - Real devices, not just toys
- Objectives of the lab
  - Play with real devices, not just toys
  - Touch what we teach in classroom
  - Facilitate the learning process
  - Lab is not always easy and it requires a considerable amount of work
  - Assignments will be evaluated by teachers
- In-class exercises
  - Facilitate the learning process
  - No explicit assignments, but...
Exam rules

- Written exams
  - 18 multiple-choice questions
    - 1 point if the answer is correct
    - 0 points if the answer missing
    - -0.5 points if the answer wrong
  - 3 exercises
    - 4 points each

- Additional points
  - Up to 3 points for the lab exercises
Exam schedule

- Two exams in summer
  - End June
  - Mid-July
- One exam in September
- One additional exam in November
  - Only for “laureandi”
- Exams outcomes
  - >18 for only 40-50% of the student in each session
  - Some math
    - $50\% + 50\% \times 50\% + 50\% \times 50\% \times 50\% = \text{about 12.5}\%$ of the students are not able to pass the exam during the year
  - Why is this number so small?
Logistics

- Course website
  - Address
    - http://netgroup.polito.it/teaching/prlc/
    - http://netgroup.polito.it/teaching/lmand/
  - Day-by-day calendar
  - Online slides
    - Available (hopefully) before the class
    - !Warning! Slides are not enough
- Online recording (on http://didattica.polito.it/)
- Prof. hours for consultancy
  - Before/after the class
  - One-to-one appointment: ask via email, checking the teacher’s calendar
    - http://www.google.com/calendar/embed?src=fulvio.risso%40gmail.com