S-38.188
Computer Networks (3 cr)
Spring 2005

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Networking Laboratory

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General information

• Mandatory subscription through TOPI
  [http://wwwtopi.hut.fi](http://wwwtopi.hut.fi)

• Course homepage

• Personnel:
  – Lectures:
    • Pasi Lassila (e-mail: pasi.lassila@tkk.fi)
    • Jouni Karvo (e-mail: jouni.karvo@tkk.fi)
    • Jörg Ott (e-mail: joerg.ott@tkk.fi)
  – Exercises: Ilmari Juva (e-mail: ilmari.juva@tkk.fi)
Course material

- Course book:
  - price: £31.95 (Amazon UK), main building’s book shop may also have it
  - 1st ed. is basically OK, but course requirements based on 2nd ed.
  - updated 3rd ed. is also out now, but course is still based on 2nd ed.

- Other material
  - slides cover all the issues required in the course, but slides are not necessarily fully self-explanatory (book explains all and even more!)
  - lecture slides delivered as a compendium via Edita
  - lectures also available electronically (via the web pages)
  - NOTE! Printing the material on the university’s printers is strickly forbidden!

Lectures & assignments

- Lectures (2 hours/week):
  - On Mondays between 14 - 16 in hall S1 (12 lectures)
    - First lecture: January 17, last lecture: April 18
  - Lectures are given in Finnish
    - slides in English

- Homeworks
  - Mandatory!
  - Consists of two parts
  - Done in pairs (pair can not be changed during course)
  - NOTE! Last year’s (or earlier) homeworks are not valid any more
Homework schedule

• Project work, part 1
  – will appear Fri, February 4
  – must be returned by Wed, March 9
  – simple calculations, delay measurements over Internet ("pinging"), "trace routing", routing exercises

• Project work, part 2
  – will appear Fri, March 11
  – must be returned by Mon, April 18
  – "guided tour" of ns2 simulation tool featuring TCP congestion control
  – + some more advanced traffic scenarios

Exercise classes

• To be used as “question hours” for doing the project works

• Part 1:
  – Wed, February 9 (week 6), at 12-14, hall S5
  – Wed, March 2 (week 9), at 12-14, hall S5

• Part 2:
  – Wed, March 16 (week 11), at 12-14, hall S5
  – Wed, April 6 (week 14), at 12-14, hall S5
  – Wed, April 13 (week 15), at 12-14, hall S5
Course completion

- To complete the course, you must
  - Pass the exam
    - 1\textsuperscript{st} exam on Mon, May 16, at 16 - 19, in halls S2 and S4
    - + two retrial examinations (Sep/Oct 2005, Dec/Jan 2006)
  - and pass the project works

- Grading based both on exam and project works
  - Project grade: Part 1 is worth 30 points and Part 2 is worth 50 points. The points obtained in both parts are summed together to form the grade of the project work. The project grade will be given according to \textbf{FAIL, -1, 0, +1}
  - Project grade will influence your final grade with respect to the exam grade by -1, 0 or +1 (with the exception that exam grade 1 and project grade -1 still gives you final grade 1, and obviously 5 + 1 = 5)

Schedule

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