Network Protocols and Architectures

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General information (1)

- Area:
  - Informatik Diplom: BKS – Hauptstudium-Vertiefer
  - Informatik Bachelor: Communication Technology
  - Informatik Master: Communication-based Systems
  - See Web page for further areas

- Master/Bachelor Module:
  “Netzwerkarchitekturen – Grundlagen (MINF-KT-NA/Glg.W10)”
  (BA/MA: With tutorial only)

- Time and room
  - Wednesday: 10:00 – 12:00 German MA 042
  - Thursday: 14:00 – 16:00 English MA 043

- Web site
  - http://www.net.t-labs.tu-berlin.de/teaching/ws1011/NPA_lecture/

- ISIS
  - https://www.isis.tu-berlin.de/course/view.php?id=3584
General information (2)

- Prerequisite:
  - Grundstudium or similar

- Tutorials
  - Homework assignments
  - Recitation sessions
General information (3)

- Options
  - BA/MA/DA: 4 SWS or 6 LP for Lecture + Tutorial
    - 50 % of exercise points => passed tutorial
  - Bonus on exam grade:
    - 60 % of exercise points => 0.3 bonus for exam grade
    - 75 % of exercise points => 0.7 bonus for exam grade
  - DA only: 2 SWS for Lecture only

- Registration for tutorials
  - Via ISIS
    - https://www.isis.tu-berlin.de/course/view.php?id=3584
  - Please fill out questionnaire
General information (4)

- Tutors
  - Oliver Hohlfeld (Tutorial management)
  - Mustafa Al-Bado
  - Jan Böttger
  - Benjamin Frank
  - Juhoon Kim
  - Ingmar Poese

- Exam
  - For those that need it 😊
  - Written exam 24. Feb. 2010 from 14:00 to 16:00
General information (5)

- Homework
  - Start: After second lecture
  - Hand-in by Thursday before 12pm (noon)
    - Online via ISIS
    - Offline via Postbox in Telefunkengebäude
    - One solution per person
    - Group discussions OK but no verbatim solutions!!!
  - Plagiarism: Not allowed
    (Copy from Internet, text book, each other, ...)
    - No points for complete assignment (first occurrence)
    - Exclusion from class (repeat offenders)

- Tutorial
  - Start: After third lecture
Exam

- For those that need it😊
- Written Exam
  - Date: **24 Feb. 2010, 2 p.m. to 4 p.m**
  - Room: **A151** (Architecture Building)
  - Registration: Until **10. Feb. 2010 noon**
    - Via ISIS
    - MA/BA students: Module registration (including signature)
      - Hand-in with homework solution
  - Language
    - English / German
  - Aids (Hilfsmittel)
    - Closed book exam
    - 1 sheet of paper (max DIN A4)
What is this course?

- Principles on which the Internet relies
- Goals
  - Identify, study common architectural components, protocol mechanisms
- Examples
  - Internet architecture
  - Network application protocols
- Principles
  - State handling, Randomization, Indirection, Virtualization, ...
Background reading

- Kurose and Ross: 
  Computer Networking: A Top-Down Approach 
  Featuring the Internet. 
  Fifth edition, Addison-Wesley, 2007 
  Preliminary edition online: student (quarter24)

- Peterson, Davie: 
  Computer Networks. A systems approach 
  Fourth edition, Morgan Kaufmann 2007 

- ... see Web