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.W12)”
  (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.inet.tu-berlin.de/menue/teaching0/ws201213/npa1213/](http://www.inet.tu-berlin.de/menue/teaching0/ws201213/npa1213/)

- **ISIS**
  - [https://www.isis.tu-berlin.de/course/view.php?id=7028](https://www.isis.tu-berlin.de/course/view.php?id=7028)
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=7028

- Please fill out questionnaire
General information (4)

- Tutors
  - Arne Ludwig, Oliver Hohlfeld (Tutorial management)
  - Juhoon Kim
  - Thomas Krenc
  - Felix Poloczek
  - Enric Pujol

- Exam
  - For those that need it 😊
  - Written exam 20. Feb. 2013 from 16:00 s.t. to 18:00
    in A151
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: 20 Feb. 2013, 4pm to 6pm
  - Room: A151 (Architecture Building)
  - Registration: Until 6. Feb. 2013 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.
  Sixth edition, Addison-Wesley

  Preliminary edition online: student (quarter24)

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

- ... see Web