Network Protocols and Architectures

Prof. Anja Feldmann, Ph.D.
anja@inet.tu-berlin.de
http://www.inet.tu-berlin.de/
General information (1)

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

- Master/Bachelor Module:
  "Network Architecture – Basic"

- Time and Room
  - Friday 14ct MA 041

- Web Site: http://www.inet.tu-berlin.de/menue/teaching0/ws201516 npa-1516/

- ISIS: https://www.isis.tu-berlin.de/2.0/mod/url/view.php?id=5140
General information (2)

- Prerequisite:
  - Grundstudium or similar

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

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

- Registration for tutorials
  - Via ISIS: https://www.isis.tu-berlin.de/2.0/mod/url/view.php?id=5140
  - Please fill out questionnaire
General information (4)

- Tutors
  - Thomas Krenc (tutorial management)
  - Damien Foucard
  - Thorben Krüger

- Exam
  - Written exam Feb. 2015
General information (5)

- **Homework**
  - Start: After *second* lecture
  - Hand-in by Friday before 2 pm
    - Online via ISIS
    - Offline via Postbox in MAR (if there is absolutely no other way)
    - *One solution per person*
  - **Plagiarism: Not allowed**
    - (Copy from Internet, text book, each other, ...)
      - Group discussions OK but no verbatim solutions!
      - 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: Mid Feb. 2015
  - Registration: 5 Feb 2015
    - 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

  Preliminary edition online: student (quarter24)
- Peterson, Davie: Computer Networks. A systems approach Morgan Kaufmann
- ... see Web