Network Protocols and Architectures

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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**
  - Monday 10ct MA043

- **Web Site:** [http://www.inet.tu-berlin.de/menue/teaching0/ws201718/npa_1718/](http://www.inet.tu-berlin.de/menue/teaching0/ws201718/npa_1718/)

- **ISIS:** [https://www.isis.tu-berlin.de/2.0/mod/url/view.php?id=10810](https://www.isis.tu-berlin.de/2.0/mod/url/view.php?id=10810)
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=10810](https://www.isis.tu-berlin.de/2.0/mod/url/view.php?id=10810)
  - Please fill out questionnaire
General information (4)

- Tutors
  - Thomas Krenc (tutorial management)
  - Jawad Saidi
  - Apoorv Shukla

- Exam
  - Written exam Feb. 2018
General information (5)

- **Homework**
  - Start: After *second* lecture
  - Hand-in by Friday before 10 am
    - 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. 2018
  - Registration: 5 Feb 2018
    - 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