

# Network Protocols and Architectures

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<http://www.inet.tu-berlin.de/>

# 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>

# 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](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