

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
 - Friday 10ct H3006

- Web Site: http://www.inet.tu-berlin.de/menue/teaching0/ws201617/npa_1617/

- ISIS: <https://www.isis.tu-berlin.de/2.0/mod/url/view.php?id=8629>

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=8629>
 - ❑ 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 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. 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

- ❑ 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