

Network Protocols and Architectures

Prof. Anja Feldmann, Ph.D.

Dr. Stefan Schmid

Florin Ciucu, Ph.D.

anja@net.t-labs.tu-berlin.de
<http://www.net.t-labs.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.W10)"
(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.net.t-labs.tu-berlin.de/teaching/ws1011/NPA_lecture/

- ISIS
 - <https://www.isis.tu-berlin.de/course/view.php?id=3584>

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=3584](https://www.isis.tu-berlin.de/course/view.php?id=3584)

- Please fill out questionnaire

General information (4)

□ Tutors

- Oliver Hohlfeld (Tutorial management)
- Mustafa Al-Bado
- Jan Böttger
- Benjamin Frank
- Juhoon Kim
- Ingmar Poesse

□ Exam

- For those that need it 😊
- Written exam 24. Feb. 2010 from 14:00 to 16:00

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: **24 Feb. 2010, 2 p.m. to 4 p.m**
 - Room: **A151** (Architecture Building)
 - Registration: Until **10. Feb. 2010 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.
Fifth edition, Addison-Wesley, 2007
Preliminary edition online: student (quarter24)
- ❑ Peterson, Davie:
Computer Networks. A systems approach
Fourth edition, Morgan Kaufmann 2007
- ❑ ... see Web