

Internet Routing

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General information (1)

- ❑ Area: BKS – Hauptstudium Vertiefer
- ❑ Time
 - Wed: 10:00 – 12:00
- ❑ Room
 - MA 042
- ❑ Language
 - English (questions can be asked in German!)
- ❑ Web site
 - <http://www.net.t-labs.tu-berlin.de/teaching/>

General information (2)

□ Prerequisite

- Network Protocols and Architecture
- Basis Kommunikationsnetze
or corresponding experience

□ Exam

- For those that need it 😊
- Oral or written exam after semester end
(depends on # of participants)

What is this course?

- ❑ Not an introduction on the Internet
- ❑ Focus: Routing in the Internet
 - Methodology
 - Principles
 - How does routing in the Internet actually look like
 - Different protocols
 - Business structure
 - Topology / route choice
 - How do the differences in wireless change the routing protocol choices

Review by example

- ❑ Overview Internet architecture
- ❑ Internet protocols
 - TCP, UDP, IP, IP addresses
- ❑ Internet Applications
 - Web, DNS, ...
- ❑ Layer 2
 - Ethernet / Switching / ARP
- ❑ Introduction to wireless
 - Channel characteristics / Mobility / Failures

Internet routing

- ❑ Routing principles
- ❑ Wireless routing in the beginning
- ❑ Routing in the Internet
- ❑ Traffic engineering and MPLS
- ❑ Wireless Internet routing
- ❑ Novel Internet routing architectures
- ❑ Taking advantage of the wireless channel
- ❑ Overlay/Underlay interactions