

Internet Routing

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<http://www.net.t-labs.tu-berlin.de/>

General information (1)

- ❑ Area: BKS – Hauptstudium Vertiefer
- ❑ Time
 - Fri: 12:00 – 14:00
- ❑ Room
 - Tel 1118/1119
- ❑ Language
 - English (questions can be asked in German!)
- ❑ Web site
 - http://www.net.t-labs.tu-berlin.de/teaching/ss11/IR_lecture
- ❑ ISIS
 - <https://www.isis.tu-berlin.de/course/view.php?id=4636>
 - Key: bgpifantastic

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
 - Future Routing architectures
 - Data Center routing challenges

Start: 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