

# Internet Measurement

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

# General information (1)

## □ Area:

- Diplom (Informatik): BKS – Hauptstudium Vertiefer
- Master (Informatik): Kommunikationsbasierte Systeme
- Bachelor (Informatik): Kommunikationstechnik
- Master (techn. Informatik): Techn. Anwendungen

## □ Time

- Tuesday: 10:15 – 11:45

## □ Room

- TEL 1118/19 (alternatively 1st floor TEL side room)

## □ Language

- English (questions can be asked in German!)

# General information (2)

## □ Web site

- [http://www.net.t-labs.tu-berlin.de/teaching/ss10/IM\\_lecture/](http://www.net.t-labs.tu-berlin.de/teaching/ss10/IM_lecture/)

## □ ISIS

- <https://www.isis.tu-berlin.de/course/view.php?id=3277>

## □ Prerequisite:

- Grundstudium
- NPA, TKN or equivalent knowledge of the Internet

# General information (3)

## □ Lecture with integrated exercises

- Lectures
- In class practical exercises
  - Bring your labtops
  - Good participation will lead to bonus on grade
  - Passing of the exam necessary to get bonus
- 2 SWS / 3 LP

## □ Exam

- For those that need it 😊
- Oral exam after semester end

# What is this course?

- ❑ Not an introduction to the Internet
- ❑ Focus: Measuring the Internet
  - Methodology
    - Why to measure
    - How to measure
    - How to interpret measurement results
    - How to do performance evaluation
  - How does the Internet actually look like
    - Application characteristics
    - Traffic characteristics
    - Topology / route choice

# Reading

- ❑ Mark Crovella, Balachander Krishnamurthy.  
Internet Measurement: Infrastructure, Traffic and Applications.  
Wiley, 2006.
- ❑ Raj Jain  
The Art of Computer Systems Performance Analysis.  
Wiley & Sons, New York, 1991
- ❑ Kurose and Ross:  
Computer Networking: A Top-Down Approach Featuring  
the Internet.  
Fifth edition, Addison-Wesley, 2009  
Preliminary first edition online: student (quarter24)
- ❑ ... see Web