

Part I

Organizational Matters

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- ▶ Modul: IN2004
- ▶ Name: “Efficient Algorithms and Data Structures II”
“Effiziente Algorithmen und Datenstrukturen II”
- ▶ ECTS: 8 Credit points
- ▶ Lectures:
 - ▶ 4 SWS
Mon 10:15–11:45 (Room 00.04.011, HS2)
Thu 10:15–11:45 (Room 00.06.011, HS3)
- ▶ Webpage: <http://www14.in.tum.de/lehre/2013SS/ea/>

The Lecturer

- ▶ Harald Räcke
- ▶ Email: raecke@in.tum.de
- ▶ Room: 03.09.044
- ▶ Office hours: (per appointment)

- ▶ Tutor:
 - ▶ Chintan Shah
 - ▶ chintan.shah@tum.de
 - ▶ Room: 03.09.059
 - ▶ Office hours: Wed 11:30–12:30
- ▶ Room: 01.06.020
- ▶ Time: Tue 14:15–15:45

Assessment

- ▶ In order to pass the module you need to pass an exam.
- ▶ Exam:
 - ▶ 3 hours
 - ▶ Date will be announced shortly.
 - ▶ There are no resources allowed, apart from a hand-written piece of paper (A4).
 - ▶ Answers should be given in English, but German is also accepted.

Assessment

- ▶ Assignment Sheets:
 - ▶ An assignment sheet is usually made available on Wednesday on the module webpage.
 - ▶ Solutions have to be handed in in the following week before the lecture on Thursday.
 - ▶ You can hand in your solutions by putting them in the right folder in front of room 03.09.052.
 - ▶ Solutions have to be given in English.
 - ▶ Solutions will be discussed in the subsequent tutorial on Tuesday.
 - ▶ The first one will be out on Wednesday, 24 April.

1 Contents

Part 1: Linear Programming

Part 2: Approximation Algorithms

2 Literatur



V. Chvatal:

Linear Programming,

Freeman, 1983



R. Seidel:

Skript Optimierung, 1996



D. Bertsimas and J.N. Tsitsiklis:

Introduction to Linear Optimization,

Athena Scientific, 1997



Vijay V. Vazirani:

Approximation Algorithms,

Springer 2001