

# Dynamic Epistemic Logic

## 0. Organization

Albert-Ludwigs-Universität Freiburg



Bernhard Nebel and Robert Mattmüller

April 24th, 2019



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# About the course

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B. Nebel, R. Mattmüller – DEL

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## People

### Lecturers

Dr. Robert Mattmüller

- **Email:** [mattmuel@informatik.uni-freiburg.de](mailto:mattmuel@informatik.uni-freiburg.de)
- **Office:** room 052-00-042
- **Consultation:** by appointment

Prof. Dr. Bernhard Nebel

- **Email:** [nebel@informatik.uni-freiburg.de](mailto:nebel@informatik.uni-freiburg.de)
- **Office:** room 052-00-029
- **Consultation:** Wednesday, 12:00-13:00, and by appointment

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### Exercises

Thorsten Engesser

- **Email:** [engesser@cs.uni-freiburg.de](mailto:engesser@cs.uni-freiburg.de)
- **Office:** room 052-00-041
- **Consultation:** by appointment

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### Lectures

- **Time:** Monday 16:15-18:00, Wednesday 16:15-17:00
- **Place:** building 101, seminar room 00-010/014

### Exercises

- **Time:** Wednesday 17:15-18:00
- **Place:** building 101, seminar room 00-010/014

### Course Website

<http://gki.informatik.uni-freiburg.de/teaching/ss19/del/>

- **Main page:** course description
- **Lecture page:** slides
- **Exercise page:** assignments

- No script, but these slides available on the web (slides are in preparation; occasionally, we may resort to the black board instead ...)
- First half of the semester:  
H. van Ditmarsch, W. van der Hoek, and B. Kooi.  
[Dynamic Epistemic Logic](#).  
Springer, 2007.
  - Three hard copies in Faculty of Engineering library,  
*Frei 91: SB/D.1/58*.
  - Electronic full-text with university licence (three copies),  
<http://www.redi-bw.de/start/unifr/EBooks-mylibrary/86527>.
- Second half of the semester:  
Selected journal articles and conference papers.
- Additional resources: **ask us!**

### Acknowledgments:

- Slides based on lecture notes (from WS 2016/2017) by Ralvi Isufaj.

## Target Audience



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### Students of Computer Science:

- Master of Science, any year
- Bachelor of Science, ~3rd year

### Other Students:

- Advanced study period (~4th year)

## Prerequisites



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### Course prerequisites:

- **Propositional logic:** syntax and semantics
- **Mathematics:** familiarity with mathematical reasoning, proofs, etc.

## Credit Points and Exam



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- 6 ECTS points
- Special lecture in specialization field **Cognitive Technical Systems**
- **Oral exam** of about 30 minutes for computer science B.Sc. students
- **Written or oral exam** for M.Sc. students and students in study programs other than computer science (likely oral)

## Exercises



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### Exercises (written assignments):

- Handed out once a week
- Due one week later, before the lecture
- Discussed in the next exercise session
- May be solved in groups of two students

You can take the exam **without any prerequisite!**

However, you also have to acquire a **Studienleistung**:

- Points can be earned for “reasonable” solutions to exercises and programming assignments.
- At least **50% of points prerequisite for a acquiring the Studienleistung.**

## What is plagiarism?

- Passing off solutions as your own that are not based on your ideas (work of other students, Internet, books, ...)
- <http://en.wikipedia.org/wiki/Plagiarism> is a good intro

**Consequence:** no Studienleistung!

- We may (!) be generous on first offense.
- Don't tell us “We did the work together.”
- Don't tell us “I did not know this was not allowed.”