

# LOGIC IN COMPUTER SCIENCE

LICS

---

Pamela Fleischmann

fpa@informatik.uni-kiel.de

Winter Semester 2019/2020

Kiel University  
Dependable Systems Group



## ORGANISATION

---

# Dates and Times

See OLAT-Calendar for detailed information!

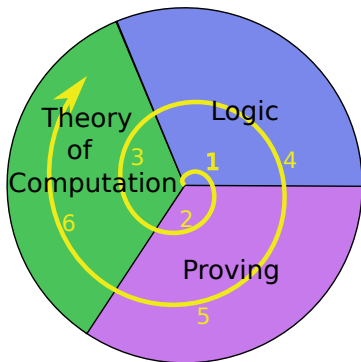
	Mon	Tue	Wed	Thu	Fri
10 - 11		Lecture			Lecture
11 - 12					
12 - 1	Tutorial	Exam Review		Lecture	
1 - 2		Office Hour			
2 - 3			Exam		
3 - 4					

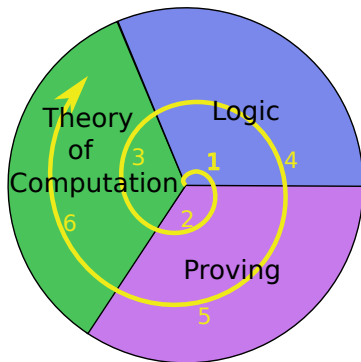


- Pamela:
  - CAP 4, 1305
  - [fpa@informatik.uni-kiel.de](mailto:fpa@informatik.uni-kiel.de)
- Lukas:
  - CAP 4, 1305
  - [stu105615@mail.uni-kiel.de](mailto:stu105615@mail.uni-kiel.de)



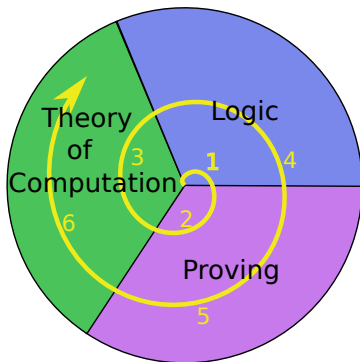
## 1. Propositional Logic





1. Propositional Logic
2. Application in *everydays* proofs

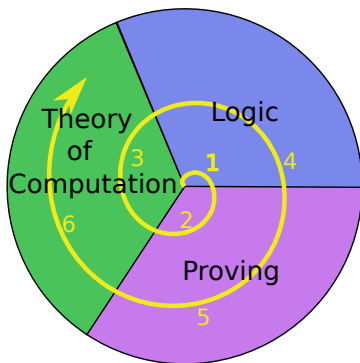




1. Propositional Logic
2. Application in *everydays* proofs
3. Chomsky Hierarchy



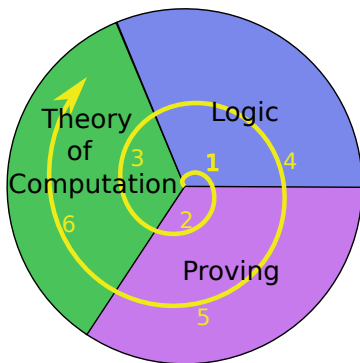
# Content



1. Propositional Logic
2. Application in *everydays* proofs
3. Chomsky Hierarchy
4. Predicate Logic

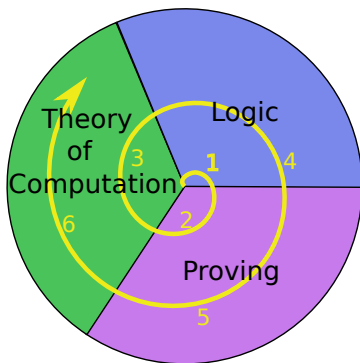






1. Propositional Logic
2. Application in *everydays* proofs
3. Chomsky Hierarchy
4. Predicate Logic
5. Application in *everydays* proofs





1. Propositional Logic
2. Application in *everydays* proofs
3. Chomsky Hierarchy
4. Predicate Logic
5. Application in *everydays* proofs
6. Complexity Theory



## Lecture:

- Tuesdays: true-false game



## Lecture:

- Tuesdays: true-false game
- presentation of the content



## Lecture:

- Tuesdays: true-false game
- presentation of the content

## Tutorial/(Theoretical) Lab:

- presentation of the exercises
- opportunity to ask questions
- doing homeworks in groups while somebody with plan is around



# Homeworks

- The homeworks are handed out on the tutorial day.
- You have one week to prepare them and hand them in.
- Handing in via email or personally.
- You get the corrected homeworks back in the tutorial.



- Four exams during the semester (see OLAT)
- The exams are of the same shape as the homeworks.
- The exams take 120 minutes.
- **Registration via OLAT for the exam is mandatory!**
- Exams are written if more than 5 students register, otherwise oral.
- Each exam has two tries.
- **Criteria:** pass 3 exams.

