

Course

THI - Theoretical Computer Science

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^ General information

Long name	Theoretical Computer Science
Approving CModule	THI_MaTIN
Responsible	Prof. Dr. Hubert Randerath Professor Fakultät IME
Level	Master
Semester in the year	summer semester
Duration	Semester
Hours in self-study	78
ECTS	5
Professors	Prof. Dr. Hubert Randerath Professor Fakultät IME
Requirements	Basics in automata theory and formal languages
Language	German
Separate final exam	Yes

Final exam

Details

oral exam

Minimum standard

Master of basic course topics must be shown

Exam Type

oral exam

^ Lecture / Exercises

Learning goals

Skills

An algorithm's complexity can be determined by analyzing its input and the algorithmic core, e.g., by means of the O-notation. The analysis might consist of a polynomial reduction of a known hard problem like the satisfiability problem in propositional logic of the unknown problem.

Expenditure classroom teaching

Type	Attendance (h/Wk.)
Lecture	2
Exercises (whole course)	2
Exercises (shared course)	0
Tutorial (voluntary)	0

Separate exam

none