Compulsory exercises
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Voluntary exercises
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1. Compulsory problem set: Basics on languages — 2 / 2

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2 points required to pass the module.

Exercise	Category	Submissions	Points
1.1 Words in a language	Compulsory exercises	1 / 50	1 / 1
1.2 Words in a language	Compulsory exercises	1 / 50	1 / 1

2. Compulsory problem set: Deterministic finite automata — 4 / 4

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4 points required to pass the module.

Exercise	Category	Submissions	Points
2.1 Words accepted by a DFA	Compulsory exercises	1 / 50	1 / 1
2.2 Designing a DFA for a language	Compulsory exercises	3 / 50	1 / 1
2.3 Designing a DFA for a language	Compulsory exercises	1 / 50	1 / 1
2.4 Minimising a DFA	Compulsory exercises	2 / 50	1 / 1

3. Compulsory problem set: Non-deterministic finite automata — 3 / 3

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3 points required to pass the module.

Exercise	Category	Submissions	Points
3.1 Designing an NFA for a language	Compulsory exercises	1 / 50	1 / 1
3.2 Designing an NFA for a language	Compulsory exercises	2 / 50	1 / 1
3.3 Determinisation	Compulsory exercises	4 / 50	1 / 1

4. Compulsory problem set: Regular expressions — 4 / 4

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4 points required to pass the module.

Exercise	Category	Submissions	Points
4.1 Regular expression for a language	Compulsory exercises	1 / 50	1 / 1
4.2 From regular expression to automaton	Compulsory exercises	1 / 50	1 / 1
4.3 From automaton to regular expression	Compulsory exercises	2 / 50	1 / 1
4.4 From regular expression to minimal automaton	Compulsory exercises	3 / 50	1 / 1

5. Compulsory problem set: Context-free grammars — 7 / 7

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7 points required to pass the module.

Exercise	Category	Submissions	Points
5.1 Parse tree for a word in a grammar	Compulsory exercises	2 / 50	1 / 1
5.2 Parse tree for a word in a grammar	Compulsory exercises	1 / 50	1 / 1
5.3 Grammar for a language	Compulsory exercises	2 / 50	1 / 1
5.4 Grammar for a language	Compulsory exercises	3 / 50	1 / 1
5.5 Grammar for a language	Compulsory exercises	3 / 50	1 / 1
5.6 Showing that a grammar is ambiguous	Compulsory exercises	1 / 50	1 / 1
5.7 Chomsky normal form for a grammar	Compulsory exercises	6 / 50	1 / 1

6. Voluntary problem set: Some small brain teasers — 2 / 3

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These problems are completely **voluntary** (no bonus points given, either) that may require more time to solve. Try with your own responsibility.

Exercise	Category	Submissions	Points
6.1 DFA for a language	Voluntary exercises	3 / 50	1 / 1
6.2 Grammar for a language	Voluntary exercises	9 / 50	0 / 1
6.3 Grammar for a language	Voluntary exercises	5 / 50	1 / 1

7. Voluntary problem set: Finite automata — 0 / 10

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These problems are completely **voluntary** (no bonus points given, either) that one may solve, for instance, before the exam to practise the constructions.

Exercise	Category	Submissions	Points
7.1 Designing a DFA for a language	Voluntary exercises	0 / 50	0 / 1
7.2 Designing a DFA for a language	Voluntary exercises	0 / 50	0 / 1
7.3 Designing a DFA for a language	Voluntary exercises	0 / 50	0 / 1
7.4 Designing a DFA for a language	Voluntary exercises	0 / 50	0 / 1
7.5 Minimising a DFA	Voluntary exercises	0 / 50	0 / 1
7.6 Minimising a DFA	Voluntary exercises	0 / 50	0 / 1
7.7 Designing an NFA for a language	Voluntary exercises	0 / 50	0 / 1
7.8 Designing an NFA for a language	Voluntary exercises	0 / 50	0 / 1
7.9 Determinisation	Voluntary exercises	0 / 50	0 / 1
7.10 Determinisation	Voluntary exercises	0 / 50	0 / 1

8. Voluntary problem set: Regular expressions — 1 / 8

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These problems are completely **voluntary** (no bonus points given, either) that one may solve, for instance, before the exam to practise the constructions.

Exercise	Category	Submissions	Points
8.1 Regular expression for a language	Voluntary exercises	2 / 50	1 / 1
8.2 Regular expression for a language	Voluntary exercises	0 / 50	0 / 1
8.3 From regular expression to automaton	Voluntary exercises	0 / 50	0 / 1
8.4 From regular expression to automaton	Voluntary exercises	0 / 50	0 / 1
8.5 From automaton to regular expression	Voluntary exercises	0 / 50	0 / 1
8.6 From automaton to regular expression	Voluntary exercises	0 / 50	0 / 1
8.7 From regular expression to minimal automaton	Voluntary exercises	0 / 50	0 / 1
8.8 From regular expression to minimal automaton	Voluntary exercises	0 / 50	0 / 1

9. Voluntary problem set: Context-free grammars — 8 / 8

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These problems are completely **voluntary** (no bonus points given, either) that one may solve, for instance, before the exam to practise the constructions.

Exercise	Category	Submissions	Points
9.1 Grammar for a language	Voluntary exercises	1 / 50	1 / 1
9.2 Grammar for a language	Voluntary exercises	2 / 50	1 / 1
9.3 Grammar for a language	Voluntary exercises	1 / 50	1 / 1
9.4 Grammar for a language	Voluntary exercises	3 / 50	1 / 1
9.5 Showing that a grammar is ambiguous	Voluntary exercises	1 / 50	1 / 1
9.6 Showing that a grammar is ambiguous	Voluntary exercises	6 / 50	1 / 1
9.7 Chomsky normal form for a grammar	Voluntary exercises	2 / 50	1 / 1
9.8 Chomsky normal form for a grammar	Voluntary exercises	8 / 50	1 / 1