

LCT at Charles University - within the Computer Science - Language Technologies and Computational Linguistics

General rules - new accreditation from 2024/25:

Each student has to pass all obligatory courses (for most of them, alternatives from a partner university might be recognized - BASED on previous

Each student must collect at least 42 credits for elective courses, with the additional two constraints:

- at least 24 credits from core elective courses
- at least 6 credits from supplementary elective courses

Each student can register any number of courses (credits are counted as "free" credits).

TOTAL

27 obligatory
42 elective courses
21 free choice
30 thesis
120

| Course name | ECTS | note | term | pre-requis | core | algorithm | digital | applicat | language |
|-------------|---|------|---------------|------------|-------------------|-----------|---------|----------|----------|
| | | | | | | DLR | LRs | ions | e data |
| | | | | | | NLA | LDS | | |
| NTIN066 | Data Structures I | 6 | obligatory | s | | | | | 6 |
| NTIN090 | Introduction to Complexity and Computability | 4 | obligatory | w | | | | | 4 |
| NPFL063 | Introduction to General Linguistics | 4 | obligatory | w | 4 | | | | |
| NPFL067 | Statistical Methods in Natural Language Process | 5 | obligatory | w | 2 | | 3 | | |
| NPFL138 | Deep Learning | 8 | obligatory | s | 3 | | | | 5 |
| | Diploma Thesis I | 6 | obligatory | both | | | | | |
| | Diploma Thesis II | 9 | obligatory | both | Diploma Thesis I | | | | |
| | Diploma Thesis III | 15 | obligatory | both | Diploma Thesis II | | | | |
| NPFL006 | Introduction to Formal Linguistics | 3 | core elective | w | 3 | | | | |
| NPFL038 | Fundamentals of Speech Recognition and Gener | 5 | core elective | w | | 2 | 3 | | |
| NPFL068 | Statistical Methods in Natural Language Process | 5 | core elective | s | | | 3 | 2 | |
| NPFL070 | Language Data Resources | 4 | core elective | w | 2 | 2 | | | |
| NPFL075 | Dependency Grammars and Treebanks | 3 | core elective | s | | 2 | 1 | | |
| NPFL079 | Algorithms in Speech Recognition | 5 | core elective | s | | | 5 | | |
| NPFL083 | Linguistic Theory and Grammar Formalisms | 5 | core elective | s | 2 | 3 | | | |
| NPFL087 | Statistical Machine Translation | 5 | core elective | s | | | | | 5 |
| NPFL093 | NLP Applications | 4 | core elective | s | | | 4 | | |
| NPFL094 | Morphological and Syntactic Analysis | 3 | core elective | w | 3 | | | | |
| NPFL099 | Statistical Dialogue Systems | 4 | core elective | w | | | 2 | 2 | |
| NPFL103 | Information Retrieval | 5 | core elective | w | | | 3 | 2 | |
| NPFL128 | Language technologies in practice | 4 | core elective | s | 4 | | | | |

| Course name | ECTS | note | term | pre-requis | core | DLR | NLA | LDS |
|-------------|--|------|------------------------|------------|------------------------|-----|-----|-----|
| NPFL082 | Information Structure of Sentences and Discour | 2 | supplementary elective | s | | 2 | | |
| NPFL095 | Modern Methods in Computational Linguistics | 3 | supplementary elective | w | | | | 3 |
| NPFL097 | Unsupervised Machine Learning in NLP | 3 | supplementary elective | w | | | | 3 |
| NPFL100 | Variability of Languages in Time and Space | 2 | supplementary elective | w | | 2 | | |
| NPFL139 | Deep Reinforcement Learning | 8 | supplementary elective | w | 2 | | | 6 |
| NPFL140 | Large Language Models | 3 | supplementary elective | s | | | | 3 |
| NPGR036 | Computer Vision | 5 | supplementary elective | s | | | 5 | |
| NAIL025 | Evolutionary Algorithms I | 5 | supplementary elective | w | | | | 5 |
| NAIL069 | Artificial Intelligence I | 4 | supplementary elective | w | 4 | | | |
| NAIL070 | Artificial Intelligence II | 3 | supplementary elective | s | | | 1 | 2 |
| NAIL104 | Probabilistic Graphical Models | 3 | supplementary elective | w | | | 3 | |
| NAIL131 | Ethics of AI+ | 2 | supplementary elective | both | | | | |
| NPGR069 | Company Project | 6 | supplementary elective | both | track depends on topic | | | |
| NPGR070 | Research Project | 9 | supplementary elective | both | track depends on topic | | | |
| NPGR071 | Software Project | 12 | supplementary elective | both | track depends on topic | | | |

Recommended free courses (not counted as elective):

| | | | | | | | | |
|---------|--|---|-----------|---|---|---|---|--|
| NPFL012 | Introduction to Computer Linguistics | 3 | Bc course | w | 3 | | | |
| NPFL101 | Competing in Machine Translation | 3 | Bc course | w | | | 3 | |
| NPFL123 | Dialogue Systems | 5 | Bc course | s | 2 | | 3 | |
| NPFL124 | Natural Language Processing | 4 | Bc course | s | 4 | | | |
| NPFL125 | Introduction to Language Technologies | 3 | Bc course | w | 3 | | | |
| NPFL129 | Introduction to Machine Learning with Python | 5 | Bc course | w | 3 | | 2 | |
| NPFL141 | Linguistics | 2 | | s | | 2 | | |
| NJAZ097 | Czech for Beginners I | 3 | | w | | 3 | | |
| NJAZ098 | Czech for Beginners II | 3 | | s | | 3 | | |

<http://ufal.mff.cuni.cz/lct/modules>

Very detailed and updated.

TOTAL

44

21

41

48

Contact person

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