

**Academic year 2019-2020**  
**Master studies in Computational Linguistics**

**Year 1 (Series 2019-2021)**

**Semester 1**

**Optional course (1 out of 2)** 7.5 ECTS  
C: 2 S: 2 L: Ex: E

MLC1101O1 *Data Structures and Algorithms (C)*  
[Course description](#)

MLC1101O2 *Advanced Software Engineering Techniques*  
[Course description](#) [Course webpage](#)

**Optional course (1 out of 2)** 7.5 ECTS  
C: 2 S: 2 L: Ex: E

MLC1102O1 *Mathematical Basics of Computational Linguistics and Formal Languages*

MLC1102O2 *Development of Web applications*  
[Course webpage](#)

MLC1103 **Computational Lexicology, Morphology and Syntax** 7.5 ECTS  
C: 2 S: 2 L: Ex: E  
[Course description](#)

MLC1104 **Applications of natural language processing** 7.5 ECTS  
C: 2 S: 2 L: Ex: EVP  
[Course description](#)

**Semester 2**

MLC1205 **Introduction to computational linguistics** 7.5 ECTS  
C: 2 S: 2 L: Ex: E

MLC1206 **Statistical Natural Language Processing** 7.5 ECTS  
C: 2 S: 2 L: Ex: E  
[Course description](#)

**Optional course (1 out of 2)** 7.5 ECTS  
C: 2 S: 2 L: Ex: E

MLC1207O1 *Scripting languages*  
[Course description](#)

MLC1207O2 *Data mining*

MLC1208 **Speech processing and fuzzy systems** 7.5 ECTS  
C: 2 S: 2 L: Ex: EVP

## Year 2 (Series 2018-2020)

### Semester 1

MLC2101 **Semantics and Pragmatics of Natural Language (C + S)** 7 ECTS  
C: 2 S: 2 L: Ex: E  
[Course description](#) [Course webpage](#)

MLC2102 **Virtual assistants** 7 ECTS  
C: 2 S: 2 L: Ex: E

MLC2103 **Machine Translation** 8 ECTS  
C: 2 S: 2 L: Ex: E  
[Course description](#)

**Optional course (1 out of 2)** 8 ECTS  
C: 2 S: 2 L: Ex: E

MLC2104O1 *Big data analytics*  
[Course description](#)

MLC2104O2 *Special Chapters on Artificial Intelligence*  
[Course description](#)

### Semester 2

MLC2205 **Ethics and academic integrity** 5 ECTS  
C: 1 S: L: Ex: EVP

MLC2206 **Professional/Research Practice** 12 ECTS  
C: S: L: 6 Ex: EVP

MLC2207 **Dissertation Preparing** 13 ECTS  
C: S: L: 7 Ex: EVP