# lfial2620

*2018*

# Natural language processing

| 5 credits | 22.5 h | Q1 |
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| Teacher(s) | Fairon Cédrick ;Jacquemin Bernard (compensates Fairon Cédrick) ; |
| Language : | French |
| Place of the course | Louvain-la-Neuve |
| Main themes | The course begins with the architectural study of a complex automatic language processing system (recognition, analysis, generation). It continues with the study of the central linguistic theories and computer formalities of ANLP. Special attention is given to the presentation and analysis of real applications. |
| Aims | 1    The course will teach students the basic theory necessary to understanding the current objectives and issues of the automatic natural language processing (ANPL). At the same time, students will learn to analyse and explain the practical and technical limits that arise in the elaboration of computer systems aimed at language processing (problems of ambiguity, necessity of linguistic resource adaptability, multilingualism, etc.). By the end of the course, students will have received an overview of the "state of the art" in ANLP, be able to take a critical approach to ANLP applications, and have a general knowledge of the main theories in the field.<br><br>- - - -<br>*The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".* |
| Evaluation methods | Practical work to be done during the course (30%) + written examination (70%). |
| Teaching methods | The course is comprised of interactive lectures. A reading folder made up of specialized articles allows students to prepare for courses, which begin with a question and answer period. |
| Content | The organization of the course is two folded. First, the course describes problems of various linguistic levels encountered in NLP applications (related to phonology, morphology, lexicology, syntax, etc.). Second, the course analyzes some NLP applications in order to highlight how they deal with linguistic problems. |
| Inline resources | PowerPoint course presentations and links to NLP applications and resources are available on Moodle. |
| Bibliography | / |
| Other infos | None |
| Faculty or entity in charge | FIAL |

| Programmes containing this learning unit (UE) | | | | |
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| Program title | Acronym | Credits | Prerequisite | Aims |
| Master [120] in Ancient and Modern Languages and Literatures | LAFR2M | 5 | | 🔍 |
| Master [120] in French and Romance Languages and Literatures : French as a Foreign Language | FLE2M | 5 | | 🔍 |
| Master [120] in Linguistics | LING2M | 5 | | 🔍 |
| Master [120] in data Science: Statistic | DATS2M | 5 | | 🔍 |