

## **A17: Language Engineering**

Language Engineering (LE) is the set of techniques, resources and tools to solve problems by using more or less an automated language. This course aims to introduce students to the overall framework, which is currently the LE. The second part of the subject will explain the two main principles of most language treatment systems, such as the content representation models and the creation and maintenance of lexical resources, both pillars of any system and any use. In the third part of the course the student will be introduced three of the major commercial applications of LE, such as information retrieval (associated with the search for data or items of information in a text) and text mining, where besides extracting data type information, we will extract relationships between them. The existing application on the market, and the more immediate trends (for example the analysis of forums for opinions) will also be discussed and explained.