Introduction to NLP (2017-2018). Syllabus.

- 1) Overview of the course
- 2) What you should know about human language
 - a. Units of language
 - b. Applications and common tasks
 - c. What is a corpus?
- 3) Introduction to NLTK
 - a. What is a corpus?
 - b. The segmentation problem. Tokenization.
 - c. Text events and statistics. Frequency Distribution and Co-occurrence
- 4) Morphology. Morphological analysis
- 5) Part of Speech tagging. Markov Models. Hidden Markov Models
- 6) Syntax. Syntactic analysis
- 7) Syntactic parsing
- 8) Semantics. Semantic analysis.
- 9) Distributional Semantic Models and Vector representation of meaning.
- 10) Introduction to DISSECT
 - a. Co-occurrence vectors
- 11) Neural Language Models
 - a. Word embeddings
- 12) Machine learning. Corpus annotation. Levels of analysis
 - a. Feature engineering
 - b. Deep learning
- 13) End-to-End tasks
 - a. Tasks
 - b. Architectures
 - c. Features
- 14) Final Project