Natural Language Processing					
Course code CIF62055	**student workload** 90 hours	**credits** (according to ECTS) 4.5	**semester** Sem. 6	**frequency** each even-semester	**duration** 16 meetings

1	**Types of courses**	**contact hours**	**independent study**	**class size**
	Elective	63 hours	27 hours	40 students

5	**Prerequisites for participation** Must have taken Algorithms and Data Structures course
2	**Learning outcomes** IF-ILO-3 Graduates are able to develop professional careers in the field of computer science based on quality aspects, data-based decision making, be responsible, and make continuous improvements. IF-ILO-7 Mastering the theoretical concept and principles of computer science, especially in the aspect of algorithms, programming, intelligent systems, information management, parallel and distributed computing, information security, human-computer interaction, software engineering, and fundamentals of computer systems and networks. IF-ILO-10 Graduates are able to analyze, design, build and evaluate an intelligent system that has the ability to learn from the environment.
3	**Subject aims** 1. Students are able to understand the basics, theories, and applications of natural language processing (NLP) 2. Students are able to apply the theory and algorithms needed for natural language processing (NLP) in an NLP application
4	**Teaching methods** lectures, case study, class discussion, presentation
6	**Assessment methods** assignment, mid-term examination, end-term examination, project evaluation, practical-skill assessment
8	**This module is used in the following degree programmes as well**
10	**Responsibility for module**
11	**Other information** 1. Jurafsky, D. dan Martin, J.H., 2009. Speech and Language Processing: An Introduction to Natural Language Processing, Computational Linguistics, and Speech Recognition.

	[daring] Speech and Language Processing An Introduction to Natural Language Processing Computational Linguistics and Speech Recognition. Prentice Hall. 2. Bird, S., Klein, E. dan Loper, E., 2009. Natural Language Processing with Python. O'Reilly Media. 3. Manning, C.D. dan Schütze, H., 1999. Foundations of statistical natural language processing. [daring] MIT Press. Tersedia pada: <http://nlp.stanford.edu/fsnlp/>.