

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KAI/2-IKV-189/16		Course title: Natural Language Processing			
Educational activities: Type of activities: lecture / practicals Number of hours: per week: 2 / 2 per level/semester: 28 / 28 Form of the course: on-site learning					
Number of credits: 6					
Recommended semester: 2., 4.					
Educational level: II.					
Prerequisites:					
Course requirements:					
Learning outcomes: The students will acquire knowledge and practical experience in the field of natural language processing. They will know how to effectively apply the underlying theory from probability, statistics, computational linguistics, and machine learning, to perform tasks involving unstructured text, such as spelling correction, text generation, sentiment analysis, information extraction, and question answering.					
Class syllabus: (1) Text Processing. (2) Language Modeling (n-grams), Spelling Correction. (3) Text Classification (Naive Bayes), Sentiment Analysis. (4) Named Entity Recognition (HMM, MaxEnt), Relation Extraction. (5) POS Tagging, Parsing. (6) Information Retrieval. (7) Meaning Extraction, Question Answering.					
Recommended literature: Speech and Language Processing, 2nd Edition / Daniel Jurafsky, James H Martin. Upper Saddle River : Prentice Hall, 2008					
Languages necessary to complete the course: English					
Notes:					
Past grade distribution Total number of evaluated students: 4					
A	B	C	D	E	FX
75,0	25,0	0,0	0,0	0,0	0,0
Lecturers: Mgr. Ivor Uhliarik					
Last change: 23.09.2017					

Approved by: prof. Ing. Igor Farkaš, Dr., prof. RNDr. Rastislav Kráľovič, PhD.