Development of the interdisciplinary master program on Computational Linguistics at Central Asian universities

585845-EPP-1-2017-1-ES-EPPKA2-CBHE-JP

Conventional Curriculum

Work Package 2 / Task 2.1.

October 2018

Content

CLASS - 585845-EPP-1-2017-1-ES-EPPKA2-CBHE-JP
Computational Linguistics at Central Asian universities
Conventional Curriculum

	Modules	ECTS	List of subjects		Notes
1	National module	*Obligatory module, which contains several disciplines, defined by the National Standards and Regulations of Kazakhstan and Uzbekistan* *The content is defined by the National Standards of Uzbekistan and Kazakhstan*			
		Total -19 ECTS (max)			
2	Research module	*Obligatory module, which includes different types of the master students's work: research work, internship, teaching practice, writing a master dissertation, its defense, final examination*			
		Total – 28 ECTS (max)			
3	NLP module including applications	25 ECTS (min)		Responsible for Development	
		4	Statistical methods for NLP	ENU	
		4	Language Resources	KazNU	
		4	Machine Translation Technologies	KazNU	
		4	Speech Processing	ENU	
		ELECTIVES (9 ECTS, choose 3 disciplines):			
		3	Ontology Design tools		
		3	Formal Models in Linguistics		
		3	Sentiment Analysis Technology		
		3	Synthesis of Speech Analysis of Natural language		
		3	Methods for Information Retrieval and Extraction		
		3	Other (according to the needs)		
4	Applied Linguistics module	24 ECTS (max)			
		5	Formal Grammars	SamSIFL	
		5	Language analysis	KSU; TSUULL	
		5	Natural Language Understanding	UrSU	
			ELECTIVES (9 ECTS, choose 3 disciplines)		
		3	Computational Morphology		
		3	DialogueSystems		
		3	Tools for Thesauri Creating		
		3	Semantic Tools		
		3	Tools for Text Corpora Creating		
		3	ComputerLexicography		
		3	Other (according to the needs)		
5	Computational Technologies module	24 ECTS			
		5	Introduction to Programming for NLP (Python, R, Prolog)	NUUz	
		5	Machine Learning in NLP	KSU; UrSU	
		5	Ontologies, Semantic Technologies	TSUULL; ENU	
			ELECTIVES (9 ECTS, choose 3 disciplines):		
		3	Data Mining		
		3	Deep Learning		
		3	Programming Pynthon, Java		
		3	Corpus Technologies		
		3	Other (according to the needs)		
	TOTAL	120 ECTS			