Individual study plan

Name:
Partner   **Charles University**
Year: **2023/24**
Programme: **CS - Language Technologies and Computational Linguistics**

code	course	ECTS	term	LCT tracks (as guidelines)				note
				core	DLR	NLA	LDS	
Obligatory courses								
NTIN066	Data Structures I	6	s				6	must be passed in Prague
NTIN090	Introduction to Complexity and Computability	4	w				4	must be passed in Prague
NPFL063	Introduction to General Linguistics	4	w	4				recognition must be officialy approved
NPFL067	Statistical Methods in Natural Language Processing I	5	w	2		3		recognition must be officialy approved
NPFL138	Deep learning	8	s	3			5	recognition must be officialy approved
	Diploma Thesis I	6	both					
	Diploma Thesis II	9	both					
	Diploma Thesis III	15	both					
	TOTAL for obligatory courses (without thesis related	27						
Core elective courses - group 1								
NPFL006	Introduction to Formal Linguistics	3	w	3				
NPFL038	Fundamentals of Speech Recognition and Generation	5	w		2	3		
NPFL068	Statistical Methods in Natural Language Processing II	5	s			3	2	
NPFL070	Language Data Resources	4	w	2	2			
NPFL075	Dependency Grammars and Treebanks	3	s		2	1		
NPFL079	Algorithms in Speech Recognition	5	s			5		
NPFL082	Information Structure of Sentences and Discourse Structure	2	s		2			
NPFL083	Linguistic Theory and Grammar Formalisms	5	s	2	3			
NPFL087	Statistical Machine Translation	5	s				5	
NPFL093	NLP Applications	4	s			4		
NPFL094	Morphological and Syntactic Analysis	3	w	3				
NPFL095	Modern Methods in Computational Linguistics	3	w				3	
NPFL097	Unsupervised Machine Learning in NLP	3	w				3	
NPFL099	Statistical Dialogue Systems	4	w			2	2	
NPFL100	Variability of Languages in Time and Space	2	w		2			
NPFL103	Information Retrieval	5	w			3	2	
NPFL104	Machine Learning Methods	4	s			2	2	

Code	Name	Credits	w/s	Sem1	Sem2	Sem3	Sem4	Notes
NPFL139	Deep Reinforcement Learning	8	s	2			6	updated
NPFL128	Language technologies in practice	4	s	4				
	TOTAL offer of core elective courses - group 1	**77**						

Core elective courses - group 2

Code	Name	Credits	w/s	Sem1	Sem2	Sem3	Sem4	Notes
NPGR069	Company Project	6	both	track depends on topic				
NPGR070	Research Project	9	both	track depends on topic				
NPGR071	Software Project	12	both	track depends on topic				
	maximum counted as core elective courses	**6**						

Core elective courses - group 3

Code	Name	Credits	w/s	Sem1	Sem2	Sem3	Sem4	Notes
NAIL025	Evolutionary Algorithms I	5	w			5		
NAIL069	Artificial Inteligence I	4	w	4				
NAIL070	Artificial Inteligence II	3	s			1	2	
NAIL104	Probabilistic Graphical Models	3	w		3			
NPGR036	Computer Vision	5	s			5		available also in English from 2023
	maximum couinted as core elective courses	**10**						

Additional courses (not counted as core elective but recommended for LCT students)

Code	Name	Credits	w/s	Sem1	Sem2	Sem3	Sem4	Notes
NPFL012	Introduction to Computer Linguistics	3	w	3				
NPFL101	Competing in Machine Translation	3	w			3		
NPFL123	Dialogue Systems	5	s	2		3		
NPFL124	Natural Language Processing	4	s	4				
NPFL125	Introduction to Language Technologies	3	w	3				
NPFL129	Introduction to Machine Learning with Python	5	w	3		2		
NPFL140	Large Language Models	3	s				3	NEW !!!
NPFL141	Linguistics	2	s		2			NEW !!!
NJAZ097	Czech for Beginners I	3	w		3			
NJAZ098	Czech for Beginners II	3	s		3			
	TOTAL for additional courses	**34**						
	TOTAL offer of courses	**185**		44	21	43	50	

Each student must pass all obligatory courses PLUS collect at least 40 credits for core elective courses

- at most 10 credits from group 2 (additional courses) and
- at most 6 credits from group 3 (project) are counted as core elective

Offer of free courses - please check the Student Information System

(all courses provided by the Faculty of Mathematics and Physics are available as free courses):

https://is.cuni.cz/studium/eng/predmety/index.php