University of Gdańsk

Subject card

Subject name and code	Language and Computers, PG_00177614		
Field of study	English Studies		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2025/2026
Education level	Bachelor's studies	Subject group	Obligatory subject group in the field of study Optional subject group
Mode of study	full-time studies	Mode of delivery	at the university
Year of study	2	Language of instruction	English
Semester of study	3	ECTS credits	2.0
Learning profile	academic	Assessment form	credit
Conducting unit			
Name and surname of lecturer (lecturers)	Subject supervisor	dr Marcin Fortuna	
	Teachers	dr Marcin Fortuna	

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	30.0	0.0	0.0	0.0	30

E-learning hours included: 0.0

Learning activity and number of study hours

Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours	Self-study	SUM
Number of study hours	30	2.0	18.0	50

Subject objectives

The course aims to familiarize students with the ways in which computers are used in contemporary linguistics and with technologies that utilize natural language. Course content covers the fundamentals of computational linguistics, corpus linguistics, working with publicly available corpora, and discussing the principles of speech synthesizers. At the end of the course, participants will learn the basics of the Python programming language.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[FAL3_W07] Has advanced detailed knowledge of selected topics in the field of linguistics, including, in particular, research into the English language.	[FAL3_W07] Has advanced detailed knowledge of selected issues in the field of computational and corpus linguistics, in particular those related to research on the English language from a computational perspective.	[SW4] test/exam - oral or written
[FAL3_U03] Applies tools of linguistic and literary analysis, formulates and solvse complex analytical and interpretative problems concerning the English language, linguistics and English-language literatures, using linguistic and literary methodological and theoretical approaches.	[FAL3_U03] Is able to use corpus and computational linguistic analysis tools, formulate and solve complex analytical and interpretative problems concerning the English language, corpus and computational linguistics, using methodological and theoretical approaches in computational linguistics.	[SU4] test/exam - oral or written
[FAL3_K01] Critically evaluates the extent of their knowledge and skills, in particular in the field of the English language, linguistics and English-language literature.	[FAL3_K01] Is ready to critically evaluate the scope of his/her knowledge and skills, in particular in the field of computational and corpus linguistics.	[SK4] test/exam - oral or written
[FAL3_U05] Communicates in speech and writing in English and discusses issues related to linguistics and English literature, using the appropriate specialized terminology.	[FAL3_U05] Can communicate orally and in writing in English on topics related to computational and corpus linguistics, using appropriate specialist terminology.	[SU4] test/exam - oral or written [SU8] observation of student's independent or team work
[FAL3_W05] He / she has advanced knowledge of the basic conceptual and terminological apparatus in the field of linguistics, including in particular those applicable in the study of the English language.	[FAL3_W05] Has advanced knowledge of the basic conceptual and terminological apparatus in the field of linguistics, in particular computational and corpus linguistics.	[SW4] test/exam - oral or written

Subject contents

- Computational Linguistics

- Corpus Linguistics

- Linguistic Databases

- Speech Synthesis

- Basics of Python Programming

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Teamwork	50.0%	10.0%
Test	50.0%	90.0%

Recommended reading

Basic literature	Glass, Lelia et al. 2024. Language and Computers. 2nd ed. Eisenstein, Jacob. 2019. Introduction to Natural Language Processing. Stefanowitsch, Anatol. 2020. Corpus linguistics: A guide to the methodology Vasiliev, Yuri. 2020. Natural Language Processing with Python and spaCy: A Practical Introduction.
Supplementary literature	Biber, Douglas & Randi Reppen. 2020. The Cambridge Handbook of English Corpus Linguistics. Jurafsky, Dan & James H. Martin. 2025. Speech and Language Processing (3 ed.)
eResources addresses	

Example issues/ example questions/ tasks being completed	- What corpus tools do we have? - How can I create my own corpus? - How does a speech synthesizer work? - How can I analyze text using the Python programming language?
Work placement	Not applicable

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