University of Gdańsk

Subject card

Subject name and code	Statistical analysis software, PG_00188607		
Field of study	English Studies		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2026/2027
Education level	Master's studies	Subject group	Obligatory subject group in the field of study Optional subject group Subject group related to scientific research in the field of study
Mode of study	full-time studies	Mode of delivery	at the university
Year of study	1	Language of instruction	English
Semester of study	2	ECTS credits	1.0
Learning profile	academic	Assessment form	credit
Conducting unit	Division of Corpus Linguistics and Glottodidactics -> Institute of English and American Studies -> Faculty of Languages -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Anna Bączkowska, prof. UG	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	15.0	0.0	0.0	0.0	15

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	15	1.0	9.0	25

Subject objectives

The aim of the course is to familiarise students with software for statistical analysis, in particular with MS Excel and/or "Statistica". Students will learn how to use of MS Excel and/or "Statistica" to analyse data using the statistical tests introduced during the module "Statistics" with some extensions

Learning outcomes

Course outcome	Subject outcome	Method of verification
[FAMU2_U10] Can independently plan and implement their own lifelong learning and guide others in this area within the framework of English philology and their chosen field of professional activity.	The Student is capable of independently planning and pursuing lifelong learning, as well as guiding others in this area in the use of IT statistical tools.	[SU1] oral statement/conversation/ discussion
[FAMU2_U04] Can select and apply information and communication techniques (ICT) during the acquisition and processing of information for research and professional purposes within the framework of English Studies.	The student is able to select and apply information and communication techniques (ICT) during the retrieval and processing of information for research in lingustics.	[SU8] observation of student's independent or team work
[FAMU2_U02] Can apply knowledge in the field of linguistics and literature in solving practical problems in the field of the chosen specialty.	The Student is able to apply knowledge from the field of It tools of statistical analysis to solve practical problems withinnatual language processing.	[SU8] observation of student's independent or team work
[FAMU2_U05] Can use and present orally and in writing knowledge in the field of auxiliary and related sciences, which is a context for English linguistic and literary studies and supports the professional work of an English philologist.	The Student is able to utilize and orally and in writing present knowledge in the field of statistics, which serves as a context for English linguistic research and supports the professional work of an English philologist.	[SU2] presentation/project/paper/ report
[FAMU2_K02] Is prepared to recognise the importance of knowledge and skills in English Studies in solving cognitive and practical problems and to seek the advice of a supervisor in their chosen place of work in the event of difficulty in solving problems on their own.	The Student is ready to recognize the significance of knowledge and skills in the field IT statistical tools for solving cognitive and practical problems, and to seek the opinion of a scientific supervisor or mentor at the chosen workplace in case of difficulties with independent problem-solving.	[SK5] implementation of a problem task
[FAMU2_K01] Is ready to critically evaluate the extent of their knowledge and skills, in particular in the field of English-language linguistics and literature and English.	The student is ready for a critical assessment of his knowledge in the field of corpus and applied linguistics, as well as textual and numerical data analysis. He understands the need for continuous learning and development.	[SK5] implementation of a problem task
[FAMU2_W12] Knows and understands the main development trends in literature, in particular with regard to research into English-language literature.	The Student is knowledgeable about and understands selected topics in statistics, which are essential as a context for research in English linguistics and for the professional work of an English philologist.	[SW4] test/exam - oral or written

Subject contents

The aim of the course is to familiarise students with statistical analysis software, in particular MS Excel and/ or partially "Statistica" (or partially with R/Python). The students will learn how to use MS Excel for statistical analysis (and/or 'Statistics' software to apply select statistical tests). They will familiarise themselves with the software interface, will learn how to upload and edit data, create and import tabulated data (sheets), make visualizations (scatter plots, bar charts, linear charts, box plots, etc.), how to choose and interpret varying homogeneity of variance tests (F, Levene's, Brown & Forsythe's), normal distribution tests (Shapir-Wilk, Kolmogorov-Smirnov, Lillieforse), their selection criteria and their interpretation, statistical tests (chi square, t-test, ANOVA, correlation, linear and logistic regression, post-hoc test) and effect size (Cohen D, eta square).

Prerequisites and co-requisites

The level of English at C1 or higher.

ATTENDANCE AT CLASSES IS MANDATORY, UNLESS THE STUDENT HAS OBTAINED THE DEAN'S APPROVAL TO FOLLOW AN INDIVIDUAL STUDY PLAN.

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
discussion	100.0%	5.0%
presentation/report	100.0%	5.0%
observation of independent or team work	100.0%	20.0%
task solving	100.0%	10.0%
final or mid-semester tests	60.0%	60.0%

Recommended reading	Basic literature	Brezina, V. 2018. Statistics for Corpus Linguistics. Cambridge: CUP. Woods, A., Fletcher, P., Hughes A., 1989. Statistics in Language Studies. Cambridge: CUP
	Supplementary literature	Glenberg, A., Andrzejewski, M. 2007. Learning from Data: An Introduction to Statistical Reasoning. London: Routledge. Rabiej, M. 2012. Statystyka z programem Statistica. Gliwice: Helion.
	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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