

Subject card

Subject name and code	STATISTICS, PG_00058404								
Field of study	Economics								
Date of commencement of studies	October 2023		Academic year of realisation of subject			2024/2025			
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study 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	2		Language of instruction			Polish			
Semester of study	3		ECTS credits			5.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Katedra Statystyki i Ekonometrii -> F		aculty of Mana	gement and E	conomi	CS CS			
Name and surname	Subject supervisor		dr inż. Karol Flisikowski						
of lecturer (lecturers)	Teachers								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	15.0	0.0	30.0	0.0		0.0	45	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study S		SUM	
	Number of study hours	45		10.0		70.0		125	
Subject objectives	Selects and uses appropriate statistical methods to analyze data, using statistical software to process and interpret the results.						ocess and		
Learning outcomes	Course out	come	Subject outcome		Method of verification				
	[K6_W05] integrates data from multiple sources to analyze complex economic problems		integrates data from multiple sources and, using a variety of statistical methods, obtains results usable in practical multidisciplinary applications			[SW1] Assessment of factual knowledge			
	nation ove data n-making	uses statistical software to improve analysis of mass data to support decision-making processes			[SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information				
Subject contents	Population and sample. Distributions of discrete and continuous random variables. Basic statistics and their distributions. Estimators and their properties. Point estimation. Interval estimation. Testing of statistical hypotheses. Significance level and power of a test. Parametric tests for one-dimensional populations. Parametric tests for two-dimensional populations. Tests for multidimensional populations. ANOVA. ANCOVA. MANOVA. MANCOVA. Nonparametric tests. Goodness of fit test. Normality tests. Chi-square test of independence. Randomness tests. Sign tests. The runs test. probability theory, descriptive statistics								
Prerequisites and co-requisites	probability trieory, des	scriptive statisti	163						

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade		
and criteria	Lecture - Final Exam	60.0%	50.0%		
	Laboratory - Tests and Quizzes	60.0%	50.0%		
Recommended reading	Basic literature	Wickham, H., Grolemund, G. (2017). R for Data Science. Import, Tidy, Transform, Visualize, and Model Data, O'Reilly. Ramachandran, K., Tsokos, C. P. (2020). Mathematical Statistics with Applications in R, Elsevier LTD.			
	Supplementary literature	Field, Z., Miles, J. (2022). Discovering Statistics Using R. SAGE Publications Ltd.			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed	A calculus task in probability and central limit theorems. A calculus task in point and interval estimation. Testing of parametric hypotheses. Testing of non-parametric hypotheses. Examination - theoretical issues.				
Work placement	Not applicable				

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