

Subject card

Subject name and code	MATHEMATICAL STATISTICS, PG_00058556							
Field of study	Economic Analytics							
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	Part-time studies (on-line)		Mode of delivery			blended-learning		
Year of study	2		Language of instruction			Polish		
Semester of study	3		ECTS credits			6.0		
Learning profile	general academic profile		Assessment form			exam		
Conducting unit	Katedra Statystyki i E	aculty of Management and Economics						
Name and surname	Subject supervisor dr Błażej Kochański							
of lecturer (lecturers)	Teachers dr Błażej Kochański							
,		·		1	,		i	_
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
	Number of study hours	16.0	0.0	16.0	0.0		0.0	32
	E-learning hours included: 24.0							
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	32		15.0		103.0		150
Subject objectives	Selects and uses appropriate statistical methods to analyze data, using statistical software to process and interpret the results.							
Learning outcomes	Course outcome		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		
	[K6_U07] uses information technologies to improve data analysis and decision-making processes		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. Basic rules of probability. Bayes formula. Random variables, expected value, variance. Distributions of discrete and continuous random variables. Sample distributions. Point and interval estimation. Testing statistical hypotheses. Level of significance and power of the test. Statistical tests and confidence intervals for one mean/proportion. Statistical tests for two means/proportions. Chi-square test. ANOVA. Tests for normality of distribution. Non-parametric tests. Tests in linear regression models. 							
Prerequisites and co-requisites	probability theory, des	scriptive statisti	ics					
Assessment methods	Subject passing criteria		Passing threshold			Percentage of the final grade		
and criteria	Laboratory - Tests and Quizzes					50.0%		
	Lecture - Final Exam		60.0%	60.0%				

Data wygenerowania: 05.11.2024 05:15 Strona 1 z 2

Recommended reading	Basic literature Supplementary literature	 Kot, Stanisław Maciej, Jakubowski, Jacek, Sokołowski, Andrzej. 2011. Statystyka. Warszawa: Difin. Aczel, A. 1996. Complete Business Statistics. Chicago, Ill London: Irwin McClave, James T., P. George Benson, and Terry Sincich. 2008. Statistics for Business and Economics. Upper Saddle River: Pearson Prentice Hall Field, Andy, Jeremy Miles, and Zoe Field. 2012. Discovering Statistics Using R. Los Angeles: SAGE Publications. Józefacka, Natalia M., Mateusz F. Kołek, Aleksandra Arciszewska-Leszczuk, and Paweł Iwankowski. 2023. Metodologia i statystyka Przewodnik naukowego turysty. Tom 1. Warszawa: Wydawnictwo Naukowe PWN 				
	eResources addresses	Uzupełniające				
		Adresy na platformie eNauczanie:				
		Statystyka matematyczna 2024/2025 (online) - Moodle ID: 39450 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=39450				
Example issues/ example questions/ tasks being completed						
Work placement	Not applicable					

Document generated electronically. Does not require a seal or signature.

Data wygenerowania: 05.11.2024 05:15 Strona 2 z 2