

## Subject card

Subject name and code	STATISTICS II, PG_00061103								
Field of study	Management								
Date of commencement of studies	October 2023		Academic year of realisation of subject			2023/2024			
Education level	second-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	1		Language of instruction			English Lectures and laboratories will be carried in English			
Semester of study	2		ECTS credits			4.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Statistics and Econometrics -> Faculty of Management and Economics								
Name and surname of lecturer (lecturers)	Subject supervisor prof. dr hab. Stanisław Kot								
	Teachers		dr Olgun Aydin						
		prof. dr hab. Stanisław Kot							
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				Self-study SUM				
	Number of study hours	45		6.0		49.0		100	
Subject objectives	Uses appropriately selected statistical methods to analyze business data, making a critical assessment of the results obtained								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K7_U02] presents logical and solid arguments about the obtained results, by analyzing and synthesizing information in various business contexts, approaching their interpretation critically		analysis results, taking into account the broad business context			[SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject			
	[K7_W02] explains the and interdependence components describing processes, using incomposition of the description of the descri	interdependence of key components describing economic phenomena using statistical methods for their analysis			[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects				
Subject contents	Probability and its properties Basic principles of probabilities, Bayes' theorem Random variables, parameters of distributions Discrete (including: binomial, Poisson) and continuous (including: uniform, normal) distributions Population and sample, sample distributions and statistics, estimators Confidence intervals for the mean and proportion Determining the sample size Testing statistical hypotheses Mean and ratio tests for one and two samples Chi-square test Nonparametric tests Tests in correlation analysis Least squares method - linear and linearized models Maximum likelihood method								

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Prerequisites and co-requisites						
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	Tutorial tasks	60.0%	50.0%			
	Test	60.0%	50.0%			
Recommended reading	Basic literature McClave J.T., Benson P.G., Sincich T. (2008), Statistics for B and Economics, Pearson/Prentice Hall Aczel A.D. (1989), Complete Business Statistics, Irwin					
	Supplementary literature	Newbold P., Carlson W.L., Thorne B.M., Statistics for Business and Economics, Pearson Miller I., Miller M., John E. Freund's mathematical statistics with applications, Pearson/Prentice Hall Wackerly D., Mendenhall W., Scheaffer R.L., Mathematical statistics with applications, Thomson Brooks/Cole				
	eResources addresses	Podstawowe				
		https://enauczanie.pg.edu.pl/moodle/course/view.php?id=36602 - Power point presentations of successive lectures				
		Uzupełniające				
		Adresy na platformie eNauczanie:				
		Statistics II 2024 - Moodle ID: 3660 https://enauczanie.pg.edu.pl/moodl	4 - Moodle ID: 36602 nie.pg.edu.pl/moodle/course/view.php?id=36602			
Example issues/ example questions/ tasks being completed	Examples					
,	What are basic properties of the Normal distribution?					
	The sample mean as the ubiased and a consisten estimator of the population mean.					
	Estimating regression functions					
	Testing the goodness of fit of a theoretical distribution					
	Testing differences between population means when samples are independent					
Work placement	Not applicable					

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