

## Subject card

Subject name and code	ESSENTIALS OF STATISTICS, PG_00061318								
Field of study	Engineering Management								
Date of commencement of studies	October 2024		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	1		Language of instruction			Polish			
Semester of study	1		ECTS credits			5.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Katedra Statystyki i Ekonometrii -> Faculty of Management and Economics								
Name and surname	Subject supervisor dr Błażej Kochański								
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	30.0	0.0	30.0	0.0		0.0	60	
	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	60		10.0		55.0		125	
Subject objectives	Applies suitable methodology for investigating patterns and associations in data sets, using statistical software to process data and interpret the outcomes.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_U07] applies information technology to improve critical analysis and evaluation of data and management processes					[SU2] Assessment of ability to analyse information			
	[K6_W02] demonstrates advanced preparation in the methods and techniques of formulating and solving problems					[SW1] Assessment of factual knowledge			

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Subject contents	Statistical data and statistical studies							
	Measurement levels	urement levels						
	Visualization of the distribution of a quantitative feature  Measures of central tendency and quantiles  Dispersion measures							
	Measures of the shape of the distribution							
	Correlation, measures of interdependence between variables							
	Linear regression							
	Dynamics analysis, indexes							
Prerequisites and co-requisites								
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade					
and criteria	tutorial exam II	60.0%	25.0%					
	tutorial exam I	60.0%	25.0%					
	written exam	60.0%	50.0%					
Recommended reading	Basic literature Aczel, A. (2010). Complete Business Statistics, New Jersey: Wo Publishing							
		McClave J. T., Benson P. G., Sincich T. (2008), Statistics for Business and Economics, Pearson/Prentice Hall						
	Supplementary literature Kot S., Jakubowski J., Sokołowski A. (2011), Statystyka, Difin							
		Józefacka, N.M., Kołek, M.F., Arciszewska-Leszczuk, A., Iwankowski, P. (2023) Metodologia i statystyka Przewodnik naukowego turysty. Tom 1. Warszawa: Wydawnictwo Naukowe PWN						
	eResources addresses	Adresy na platformie eNauczanie:						
Example issues/ example questions/ tasks being completed	Based on the data, compare two groups using descriptive statistics. Interpret the results.							
	In a certain population of men, their height and weight have the following characteristics: average height = 175 cm, standard deviation = 9 cm mean body weight = 80 kg, standard deviation = 20 kg Pearson correlation is 0.4 Estimate the man's body weight, knowing that his height is 193 cm.							
	Based on the fixed-base index, determine the values of the chain index. Calculate the average rate of change (CAGR).							
Work placement	Not applicable							

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