

Subject card

Subject name and code	ESSENTIALS OF STATISTICS, PG_00061318								
Field of study	Engineering Management								
Date of commencement of studies	October 2023		Academic year of realisation of subject			2023/2024			
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	Department of Statistics and Econometrics -> Faculty of Management and Economics								
Name and surname of lecturer (lecturers)	Subject supervisor		dr Błażej Kochański						
	Teachers		mgr Magdalena Licznerska						
			dr Jakub Golik						
			dr Błażej Kochański						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project		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_W02] demonstrates advanced preparation in the methods and techniques of formulating and solving problems					[SW1] Assessment of factual knowledge			
	[K6_U07] applies information technology to improve critical analysis and evaluation of data and management processes		uses statistical software that facilitates the analysis of mass data and supports decision-making processes			[SU2] Assessment of ability to analyse information			

Subject contents	Statistical data and statistical studies								
	Measurement levels Visualization of the distribution of a quantitative feature								
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	Measures of central tendency and quantiles								
	inicasures of certifal terructicy and quantities								
	Discouries								
	Dispersion measures								
	Measures of the shape of the distribution								
	Correlation, measures of interdependence between variables								
	Linear regression								
	Dynamics analysis, indexes								
	Synamics analysis, macros								
Prerequisites									
and co-requisites									
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade						
and criteria	written exam	60.0%	50.0%						
	tutorial exam I	60.0%	25.0%						
	tutorial exam II	60.0%	25.0%						
Recommended reading	Basic literature	Aczel, A. (2010). Complete Business Statistics, New Jersey: Wohl Publishing							
		MaClaura I. T. Dannara D. O. Obratala T. (2000). Ci. (f. f. D. d.							
		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., Iwa P. (2023) Metodologia i statystyka Przewodnik naukowego tu								
		Warszawa: Wydawnictwo Naukowe PWN							
	-Danasana II	 							
	eResources addresses	Uzupełniające							
		Adresy na platformie eNauczanie:							
	Podstawy statystyki 2023/2024 - Moodle ID: 31452 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=31452								
Example issues/	Based on the data, compare two groups using descriptive statistics. Interpret the results.								
example questions/	ons/								
tasks being completed									
		n 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).								
	x placement Not applicable								

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