



Subject card

Subject name and code	STATISTICS I, PG_00061097						
Field of study	Management						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2024/2025		
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		
Semester of study	1	ECTS credits			4.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Katedra Statystyki i Ekonometrii -> Faculty of Management and Economics						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Mariusz Kaszubowski				
	Teachers		dr Mariusz Kaszubowski				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	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 didactic classes included in study plan	Participation in consultation hours		Self-study		SUM
	Number of study hours	45	6.0		49.0		100
Subject objectives	Formulates and solves problems using appropriate methods and reliable data, obtaining results that explain the phenomena in the organization						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K7_U05] cooperates with other people in the implementation of teamwork, both as a leader and a team member, effectively achieving the assumed goals		prepares statistical analyzes and, as part of teamwork, interprets the obtained results		[SU2] Assessment of ability to analyse information		
	[K7_W06] identifies reliable sources of information relevant to the analyzed issues		selects appropriate methods for a correctly identified problem and obtains a solution based on reliable data		[SW1] Assessment of factual knowledge		
Subject contents	Statistical research - experiments and observational studies Types of statistical features and measurement scales Distribution visualization (histogram, boxplot) Location measures: arithmetic mean, geometric mean, mode, median, quartiles Dispersion measures Measures of the shape of the distribution Analysis of interdependencies between quantitative features (correlation, Pearson's linear correlation coefficient, linear regression: function parameters, fit measures) Analysis of interdependencies between qualitative features Index account (individual and aggregate price, quantity and value Laspeyres, Paasche and Fisher indices, single-base and chain indices) Probability distributions Normal distribution, standardization of a normal random variable						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Prjects		50.0%		20.0%		
	Tutorial tests		60.0%		30.0%		
	Lecture test		60.0%		50.0%		

Recommended reading	Basic literature	Aczel, Statystyka w zarządzaniu Diez i in., OpenIntro Statistics McClave i in., Statistics for Business and Economics
	Supplementary literature	Freedman i in., Statistics
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	Based on the data, compare the 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 the Pearson correlation is 0.4 Estimate the man's weight, knowing that his height is 193 cm	
Work placement	Not applicable	