

## § GDAŃSK UNIVERSITY § OF TECHNOLOGY

## Subject card

Subject name and code	INSURANCE STATISTICS, PG_00060796							
Field of study	Economic Analytics							
Date of commencement of	October 2023 Academic year of 2023/2024							
studies			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		
Semester of study	2		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	Subject supervisor	dr Mariusz Kaszubowski						
of lecturer (lecturers)	Teachers		dr Mariusz Kaszubowski					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	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 i classes includ plan		Participation i consultation h		Self-st	udy	SUM
	Number of study hours	45		5.0		50.0		100
Subject objectives	Explains the functioning of the insurance market by analyzing various insurance products, presenting and convincingly interpreting the results obtained							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	[K7_W06] identifies reliable sources of information relevant to the analyzed issues		identifies reliable sources of information needed to analyze the insurance market by analyzing various risks using statistical tools and methods			[SW1] Assessment of factual knowledge		
	[K7_U04] prepares and presents convincing, professional presentations of analysis results, with their in-depth interpretation		analyzes insurance products based on historical and demographic data and presents the results in a convincing way along with professional interpretation			[SU3] Assessment of ability to use knowledge gained from the subject		
Subject contents	Elements of the calculus of probability especially used in insurance (conditional probability, total probability, Bayesian formula) Probability distributions used in insurance risk assessment Testing the fit of theoretical insurance risk distributions based on historical data Calculation of net premiums in various insurance variants Gross premium calculation Life expectancy tables, their construction and application Commutation functions and their application in the calculation of insurance premiums Analysis of life insurance markets in Poland and in the world							
Prerequisites and co-requisites								
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade			
	Test		60.0%			100.0%		
Recommended reading	Basic literature		Ubezpieczenia na życie. Teoria i praktyka, Eugeniusz Stroiński, Wydawnictwo Poltext z serii Ubezpieczenia, Warszawa 2004 Nowe zasady ubezpieczeń majątkowych i osobowych. Poradnik, T. Jakubowski, Warszawa 1991					
			Podstawy ubezpieczeń, tom II produkty, pod redakcją Jana Monkiewicza, Wydawnictwo Poltext, seria: Ubezpieczenia, Warszawa 2005 (wydanie i - 2001)					
Data wydruku: 20.05.2024						~	172	

	eResources addresses	Adresy na platformie eNauczanie:				
		Insurance Statistics Analityka gospodarcza (studia w jęz. angielskim) (WZiE), II stopnia, stacjonarne, 2023/2024 - zimowy (obecnie sem. 2) - Moodle ID: 37962 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=37962				
Example issues/ example questions/ tasks being completed	Problems in the theory of probability (using e.g. the Bayes formula) Calculation of the net premium in various variants Calculation of the net premium for various insurances Application of commutation functions Theoretical guestions about the functioning of the insurance market in Poland and in the world					
Work placement	Not applicable					