GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	INSURANCE STATISTICS, PG_00060695		
Field of study	Economic Analytics		
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	Polish
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	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	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

	Supplementary literature	Podstawy ubezpieczeń, tom II produkty, pod redakcją Jana Monkiewicza, Wydawnictwo Poltext, seria: Ubezpieczenia, Warszawa 2005 (wydanie i - 2001)
	eResources addresses	Adresy na platformie eNauczanie: Statystyka ubezpieczeniowa Analityka gospodarcza (WZiE), II stopnia, stacjonarne, 2023/2024 - zimowy (obecnie sem. 2) - Moodle ID: 37963 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=37963
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 questions about the functioning of the insurance market in Poland and in the world	
Work placement	Not applicable	

Document generated electronically. Does not require a seal or signature.