GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Risk Management in the Enterprise, PG_00067802		
Field of study	Economic Analytics		
Date of commencement of studies	October 2025	Academic year of realisation of subject	2027/2028
Education level	first-cycle studies	Subject group	Optional subject group 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	3	Language of instruction	Polish
Semester of study	5	ECTS credits	4.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department Of Finance -> Faculty Of Management And Economics -> Wydziały Politechniki Gdańskiej		
Name and surname of lecturer (lecturers)	Subject supervisor		
	Teachers		

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	15.0	30.0	0.0	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

Describes methods of hedging against different types of risks and their identification and calculation.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_U06] acquires specialized knowledge in the field of economic analytics, demonstrating the ability to effectively plan individual work and pursue lifelong learning.	acquires new knowledge necessary for selecting and applying appropriate risk hedging instruments	[SU4] Assessment of ability to use methods and tools
[K6_W03] is familiar with reliable sources of information and employs advanced knowledge to explain the fundamental dilemmas of the contemporary economy	identifies reliable sources of information for risk definition and analysis	[SW1] Assessment of factual knowledge

Subject contents

Concept of risk, classification and identification of risks.
Risk management process.
Calculation of risk measures (standard deviation, semistandard deviation, coefficient of variation, VAR).
Quantification of risk by means of: risk map, Risk Score method, stress tests.
Risk assessment using scenario analysis and sensitivity analysis.
Application of currency risk hedging transactions (forwards, futures, options, swaps, zero-cost corridors).
Toxic option products.
Application of interest rate hedging transactions (FRA, options, caps, floors, collars).
Hedging against default risk. The concept and settlement of CDS transactions.
Application of weather risk hedging transactions (forwards, options, swaps, catastrophe bonds).

Prerequisites and co-requisites

Knowledge of financial management.

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Colloquium	60.0%	100.0%

Recommended reading	Basic literature	Benett, D.(2000). Ryzyko walutowe. Kraków: Dom Wydawniczy ABC. Jajuga, K. (red.). (2007 oraz 2019 wydanie II) Zarządzanie ryzykiem. Warszawa: PWN. Kaczmarek, T.T. (2005). Ryzyko i zarządzanie ryzykiem. Warszawa: Difin. Kalinowski, M. (2009). Zarządzanie ryzykiem stopy procentowej w przedsiębiorstwie. Warszawa: CeDeWu. Kalinowski, M. (2007). Zarządzanie ryzykiem walutowym w przedsiębiorstwie. Warszawa: CeDeWu. Karkowski, P. (2009). Toksyczne opcje. Od zaufania do bankructwa. Warszawa: GreenCapital.pl. Maliszewski, J. (2013). Zarządzanie ryzykiem kursu walutowego w przedsiębiorstwie. Warszawa: Wydawnictwo Linia. Preś, J. (2007). Zarządzanie ryzykiem pogodowym. Warszawa: Cedewu. Tarczyński, W., Mojsiewicz, M. (2001). Zarządzanie ryzykiem. Warszawa: PWE. Woźniak, J., Wereda, W. (red.). (2018). Mapa ryzyka w zarządzaniu organizacją. Warszawa: CeDeWu.
	Supplementary literature	Best, P. (2000). Wartość narażona na ryzyko. Kraków: Dom Wydawniczy ABC.
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	List and characterise of internal hedging methods against exchange rate risk. List and characterise the external instruments for hedging currency and interest rate risk. Prepare risk map on the basis of specific company data.	
Work placement	Not applicable	

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