

Subject card

Subject name and code	DERIVATIVE INSTRUMENTS IN FINANCIAL MANAGEMENT, PG_00067550								
Field of study	Economic Analytics								
Date of commencement of	October 2025	Academic year of			2026/2027				
studies			realisation of subject						
Education level	second-cycle studies		Subject group			Optional subject group			
						Specialty 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	2		Language of instruction			Polish			
Semester of study	3		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department Of Finan	of Management And Economics -> Wydziały Politechniki Gdańskiej							
Name and surname	Subject supervisor								
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	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 classes include plan				Self-study SUM		SUM		
							Number of study hours	45	
	Subject objectives	Plans to use derivatives, matching them to the current needs of the organization in order to reduce financial risk and maintain the economic value of the organization							
Learning outcomes	rning outcomes Course outcome		Subject outcome			Method of verification			
	[K7_W06] knows and understands the principles of evaluating the reliability of utilized data, applying in-depth specialized knowledge in the field of economic analysis. [K7_K02] acts entrepreneurially,		principles of data reliability assessment and uses them to analyze organizational financing problems and select appropriate solutions.			[SW1] Assessment of factual knowledge [SK5] Assessment of ability to			
	making competent and ethical decisions that consider the public interest as well as economic,		and make decisions that minimize value loss while considering economic and social responsibility.			solve problems that arise in practice			
	social, and environm								
Subject contents	The essence of derivatives and their classification Valuation of forward contracts for assets								
	Valuation of FRA contracts								
	The use of futures contracts to hedge against currency risk The use of futures contracts to hedge against interest rate risk								
	Effectiveness of hedging strategies. Valuation of currency and interest rate swaps.								
	Option pricing binomial model and Black-Scholes model Greek coefficients								
	Option strategies - examples of use Examples of exotic options and their use.								
Proroquisitos	Examples of exotic of	otions and their	use.						
Prerequisites and co-requisites									
Assessment methods	Subject passing criteria		Passing threshold			Percentage of the final grade			
and criteria	2 tests per semester		-			100.0%			

Recommended reading	Basic literature	Hull J., Kontrakty terminowe i opcyjne. Wprowadzenie, WIG Press, Warszawa 1997 Hull J. C., Zarządzanie ryzykiem instytucji finansowych, Wydawnictwo Naukowe PWN, Warszawa 2011 Jajuga K., Inwestycje: instrumenty finansowe, aktywa niefinansowe, ryzyko finansowe, inżynieria finansowa, Wydawnictwo Naukowe PWN Warszawa 2007 Zarządzanie ryzykiem, red. K. Jajuga, Wydawnictwo Naukowe PWN, Warszawa 2008				
	Supplementary literature	Dębski W., Rynek finansowy i jego mechanizmy, Wydawnictwo Naukowe PWN, Warszawa 2001 Golawska-Witkowska G., Rzeczycka A., Instrumenty pochodne w ograniczaniu ryzyka bankowego, Katedra Finansów, WZiE, PG, Gdańsk 2009 Kalinowski M., Zarządzanie ryzykiem stopy procentowej w przedsiębiorstwie, CeDeWu, Warszawa 2009 Kalinowski M., Zarządzanie ryzykiem walutowym w przedsiębiorstwie, CeDeWu, Warszawa 2008 Pruchnicka-Grabias I., Egzotyczne opcje finansowe, CeDeWu, Warszawa 2009				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	Binomial model. Black-Scholes model					
Work placement	Not applicable					

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

Data wygenerowania: 03.05.2025 16:18 Strona 2 z 2