



Subject card

Subject name and code	Financial Engineering, PG_00067957								
Field of study	Economics								
Date of commencement of studies	October 2025	Academic year of realisation of subject		2027/2028					
Education level	first-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	3	Language of instruction		Polish					
Semester of study	5	ECTS credits		3.0					
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			
	Number of study hours	0.0	30.0	0.0	0.0	30			
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		SUM			
	Number of study hours	30	5.0	40.0	75				
Subject objectives	Uses derivative instruments to limit financial risk and carries out their valuation.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_K02] is prepared to make competent and ethical decisions to create and maintain economic, social, and environmental values, demonstrating entrepreneurial actions.		uses the results of analyzes to make decisions in order to create and maintain economic, social and environmental value			[SK5] Assessment of ability to solve problems that arise in practice			
Subject contents	[K6_U05] leverages the knowledge acquired in the field of economics to solve challenging problems, achieving results that are economically and socially valuable.								
	creates innovative solutions to the problems of valuation of derivative instruments								
Prerequisites and co-requisites	[SU4] Assessment of ability to use methods and tools								

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
Theory test	50.0%	10.0%	
2 Colloquium	60.0%	80.0%	
Additional activities	0.0%	10.0%	
Recommended reading		Hull, J. (1997). Kontrakty terminowe i opcjne. Wprowadzenie. Warszawa: WIG Press. Hull, J. C.(2011). Zarządzanie ryzykiem instytucji finansowych. Warszawa: Wydawnictwo Naukowe PWN. Jajuga, K. (2015). Inwestycje: instrumenty finansowe, aktywa niefinansowe, ryzyko finansowe, inżynieria finansowa. Warszawa: Wydawnictwo Naukowe PWN. Jajuga, K. (red.). (2020). Zarządzanie ryzykiem . Warszawa: Wydawnictwo Naukowe PWN.	
		Bartkowiak, M. (2014). Instrumenty pochodne. Wprowadzenie do inżynierii finansowej. Poznań: Wydawnictwo Uniwersytetu Ekonomicznego w Poznaniu. Pruchnicka-Grabias, I.(2012). Egzotyczne opcje finansowe. Systematyka, wycena, strategia. Warszawa: CeDeWu. Weron, A., Weron, R. (2019). Inżynieria finansowa. Wycena instrumentów pochodnych. Symulacje komputerowe. Statystyka rynku. Warszawa: Wydawnictwo Naukowo-Techniczne.	
		eResources addresses	
Example issues/ example questions/ tasks being completed		Binomial method. Black-Scholes formula.	
Work placement	Not applicable		

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