



Subject card

Subject name and code	Derivatives in Financial Management, PG_00037094						
Field of study	Economic Analytics						
Date of commencement of studies	October 2022	Academic year of realisation of subject			2023/2024		
Education level	second-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	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 Economic Analysis and Finance -> Faculty of Management and Economics						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Ewa Mazurek-Krasodomska					
	Teachers	dr inż. Ewa Mazurek-Krasodomska					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	30.0	0.0	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		Self-study	SUM
	Number of study hours	30		6.0		39.0	75
Subject objectives	Introduction students to the possibility of using derivative instruments in order to reduce financial risk and their valuation.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K7_U03] can identify and analyse the causes and course of specific economic processes and phenomena as well as propose solutions based on them	The student is able to assess the company's financial risk and reduce it using of derivatives.			[SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools		
	[K7_U14] can improve oneself through the systematic acquisition of knowledge and skills	Student can improve by a systematic knowledge and skills acquisition necessary to use derivative instruments to limit the financial risks.			[SU2] Assessment of ability to analyse information		
	[K7_W15] has an in-depth knowledge of the processes taking place in the company and the risks associated with it	The student has knowledge of the financial risk of the company.			[SW1] Assessment of factual knowledge		
Subject contents	The essence of derivatives and their classification. Valuation of forward contracts on assets; Valuation of FRA; Valuation of swaps; Valuation of options - Binomial Model and Black-Scholes model; The use of futures contracts to hedge against currency risk.; The use of futures contracts to hedge against interest rate risk.; Options strategies - examples of use; Using swaps to hedge against the risk.						
Prerequisites and co-requisites	No requirements						
Assessment methods and criteria	Subject passing criteria	Passing threshold			Percentage of the final grade		
	Homework	50.0%			30.0%		
	Midterm colloquium	60.0%			70.0%		

Recommended reading	Basic literature	<ol style="list-style-type: none"> 1. Hull J., Kontrakty terminowe i opcyjne. Wprowadzenie, WIG Press, Warszawa 1997. 2. Hull J. C., <i>Zarządzanie ryzykiem instytucji finansowych</i>, Wydawnictwo Naukowe PWN, Warszawa 2011. 3. Jajuga K., Inwestycje: instrumenty finansowe, aktywa niefinansowe, ryzyko finansowe, inżynieria finansowa, Wydawnictwo Naukowe PWN, Warszawa 2015. 4. <i>Zarządzanie ryzykiem</i>, red. K. Jajuga, Wydawnictwo Naukowe PWN, Warszawa 2020.
	Supplementary literature	<ol style="list-style-type: none"> 1. Dębski W., Rynek finansowy i jego mechanizmy, Wydawnictwo Naukowe PWN, Warszawa 2001. 2. Golawska-Witkowska G., Rzeczycka A., Instrumenty pochodne w ograniczaniu ryzyka bankowego, Katedra Finansów, WZiE, PG, Gdańsk 2009. 3. Kalinowski M., Zarządzanie ryzykiem stopy procentowej w przedsiębiorstwie, CeDeWu, Warszawa 2009. 4. Kalinowski M., Zarządzanie ryzykiem walutowym w przedsiębiorstwie, CeDeWu, Warszawa 2008. 5. Pruchnicka-Grabias I., Egzotyczne opcje finansowe, CeDeWu, Warszawa 2009.
	eResources addresses	<p>Adresy na platformie eNauczanie:</p> <p>23/24 Instrumenty pochodne w zarządzaniu finansami - Moodle ID: 28667</p> <p>https://enauczanie.pg.edu.pl/moodle/course/view.php?id=28667</p>
Example issues/ example questions/ tasks being completed	Binomial method. Black-Scholes formula.	
Work placement	Not applicable	