

Subject card

Subject name and code	Investments in Derivatives, PG_00156020						
Field of study	Management						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2024/2025		
Education level	Master's studies		Subject group		Obligatory subject group in the field of study		
Mode of study	part-time studies		Mode of delivery		at the university		
Year of study	1		Language of instruction		Polish		
Semester of study	2		ECTS credits		2.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Department of Investment and Real Estate -> Faculty of Management -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Krzysztof Kowalke				
	Teachers		dr Krzysztof Kowalke				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	8.0	0.0	0.0	0.0	0.0	8
	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	8		18.0		24.0	50
Subject objectives	learning about the theoretical and practical aspects of the derivatives market and investment strategies used in this market						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[ZARZMU2_K05] The student is ready to make an in-depth assessment of phenomena and justify his position through rational, logical and entrepreneurial use of knowledge - basing his assertions and decisions on an in-depth analysis of the information he receives.	He is able to think rationally, logically and enterprisingly - basing his statements and decisions on the analysis of the information he receives. He has the ability to make a proper assessment of phenomena on the financial markets and clearly justify his position.	[SK1] oral statement/conversation/discussion [SK5] implementation of a problem task
	[ZARZMU2_U06] The student can forecast and simulate complex economic and social phenomena concerning the macro scale (economy) and micro terms (enterprise) using complex methods and tools applied in management and quality studies.	Is able to correctly select and apply advanced methods and tools used in derivatives market investments in forecasting and simulating complex financial phenomena.	[SU4] test/exam - oral or written [SU5] implementation of a problem task
	[ZARZMU2_W14] The student has a structured, expanded detailed knowledge of the selected specialty in the field of management.	Has structured, extensive detailed knowledge (mainly concerning investments in the derivatives market) in the field of investment and real estate specialization in management.	[SW4] test/exam - oral or written
	[ZARZMU2_U04] The student can creatively apply management and quality studies knowledge in professional practice.	Is able to apply acquired knowledge in the area of investments in the derivatives market in professional practice.	[SU1] oral statement/conversation/discussion [SU4] test/exam - oral or written [SU5] implementation of a problem task
	[ZARZMU2_W13] The student has in-depth knowledge of advanced methods and techniques of managerial analysis, supporting the process of economic decision-making, and is familiar with the sources of obtaining data and information in the various fields of social sciences, especially management and quality studies.	Has in-depth knowledge of a number of different methods and managerial analysis techniques supporting the process of making investment decisions on the derivatives market (in particular: futures contract pricing models, application of option strategies), and also knows the sources of data and information from the scope of specific fields of social sciences.	[SW4] test/exam - oral or written [SW1] oral statement/conversation/discussion [SW5] implementation of a problem task
	[ZARZMU2_K04] The student knows the need to resolve dilemmas related to the profession's performance and fulfilling social obligations. He correctly identifies them.	Correctly identifies and resolves dilemmas related to the profession of investment advisor.	[SK1] oral statement/conversation/discussion [SK4] test/exam - oral or written
Subject contents	derivatives market theoretical foundations; valuation of futures contracts; concluding transactions and settling futures contracts in practice on an investment platform; valuation of options using the binomial tree model; valuation of options using the Black-Scholes model; option strategies theoretical foundations and their practical use on an investment platform;		
Prerequisites and co-requisites	knowledge of financial mathematics and the basics of financial market functioning		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	final colloquium	51.0%	100.0%
Recommended reading	Basic literature	Jajuga K., Jajuga T.: Inwestycje: instrumenty finansowe, aktywa niefinansowe, ryzyko finansowe, inżynieria finansowa. PWN, Warszawa 2006. Dębski W.: Rynek finansowy i jego mechanizmy. PWN, Warszawa 2010. Hull J.: Kontrakty terminowe i opcje. WIG-Press; Warszawa 1997; A. Sopoćko: Rynkowe instrumenty finansowe. PWN, Warszawa 2005.	

	Supplementary literature	Inwestycje rzeczowe i kapitałowe. Praca zbiorowa pod redakcją naukową J. Różańskiego, Difin, Warszawa 2006. Zalewski G.: Kontrakty terminowe w praktyce, WIG PRESS, Warszawa 2006, Zalewski G: Kontrakty terminowe i forex. Teoria i praktyka, Linia, Warszawa 2010,
	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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