Subject card

Subject name and code	Investments in Derivatives, PG_00155597		
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	
Mode of study	full-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	0.0	15.0	0.0	0.0	0.0	15
	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	15	11.0	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_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
	[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_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_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

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; concluding transactions and settling options on shares, indices and commodities investment platform; 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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