



Subject card

Subject name and code	Corporate finance, PG_00045304						
Field of study	Data Engineering, Data Engineering						
Date of commencement of studies	October 2026	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	2	Language of instruction				English	
Semester of study	4	ECTS credits				3.0	
Learning profile	general academic profile	Assessment form				assessment	
Conducting unit	Department of Finance -> Faculty of Management and Economics -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor	dr Jarosław Ziętarski					
	Teachers	dr inż. Marcin Potrykus dr Jarosław Ziętarski					
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	15.0	15.0	0.0	0.0	45
	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	45	5.0		25.0	75	
Subject objectives	Acquisition of knowledge and skills for financial decision-making on middle and senior management.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K6_U06] acquires new knowledge, planning its own development in aiming at achieving defined goals	Student acquires new knowledge by analyzing economic and financial processes within the enterprise, identifying their causes, and classifying their significance for the organization.			[SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools		
	[K6_K02] makes competent and ethical decisions to create and maintain economic, social and environmental values	Student makes competent and ethical financial decisions aimed at creating and maintaining economic, social, and environmental value within the enterprise, taking into account the optimization of the capital structure, investment decisions, and financial risk management.			[SK5] Assessment of ability to solve problems that arise in practice		
	[K6_W03] identifies veracious sources of information relevant to the analyzed issues	Student potrafi identyfikować wiarygodne źródła informacji finansowych, takie jak bilans, raporty finansowe i dane rynkowe, które są istotne do analizy decyzji inwestycyjnych, zarządzania kapitałem obrotowym oraz oceny płynności i wartości przedsiębiorstwa.			[SW2] Assessment of knowledge contained in presentation		

Subject contents	Course content – lecture		
	Financial balance sheet analysis, Ratio analysis (Financial balance sheet + Income statement), Time value of money, The basics of capital budgeting, The cost of capital, Bank loans, DOL, DFL, DTL, Break-even point analysis + corporate bond valuation,		
	Course content – exercises Calculation exercises on the asset balance sheet, calculation of financial ratios and their interpretation (asset balance sheet + profit and loss account), calculation of present and future value based on the time value of money, capital budgeting on selected examples, calculation of the cost of capital (external and total), calculation of the cost of bank loans, calculation and interpretation of: DOL, DFL, DTL, calculation of the quantitative and value break-even point + valuation of corporate bonds,		
Course content – laboratory The use of computer applications in the analysis of the asset balance sheet, software support in ratio analysis (assets balance sheet + profit and loss account), the use of computer programs to calculate the time value of money, the use of computer software for capital planning, the use of computer programs to calculate the cost of capital, the preparation of a bank loan repayment schedule, computer software support in the calculation of DOL, DFL, DTL, the use of computer software in the calculation of the break-even point and the valuation of corporate bonds,			
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Written exam	60.0%	20.0%
	Tests during the semester	60.0%	40.0%
	Tests during the semester	60.0%	40.0%
Recommended reading	Basic literature	1. Berk J., Corporate Finance, Pearson Education Limited, 2016. 2. Vernimmen P., Quiry P., Dalocchio M., Le Fur Y., Salvi A., Corporate Finance: Theory and Practice, 4th Edition, 2014. 3. Damodaran A., Corporate Finance Theory & Practice, John Wiley & Sons, 2nd Edition, 2001.	
	Supplementary literature	Ziętarski Jarosław, Kubiszewska Katarzyna, A piece of corporate finance, ISBN: 978-83-7348-888-5, Issue.: 1, 2023	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Define IRR, PP, ROE, NPV, EBIT		
	Assess how the decline in sales will change the total risk of the company from the perspective of the interests of the owners. Calculate ROE		
Practical activities within the subject	Not applicable		

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