



Subject card

Subject name and code	Finance Management, PG_00023764						
Field of study	Mathematics						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
Education level	first-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	4		ECTS credits		2.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Division of Differential Equations and Applications of Mathematics -> Institute of Applied Mathematics -> Faculty of Applied Physics and Mathematics -> Wydział Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Krzysztof Świetlik				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	15.0	0.0	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		2.0		3.0	50
Subject objectives	Acquiring knowledge in the management of enterprise assets and liabilities (receivables, equity and external capital). Acquiring the ability to design the optimal capital structure, calculate the cost of capital, determine investment strategies, profit dynamics and increase the company's carrying value.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	K6_U10		Student uses MS Excel formulas to calculate WACC value.		[SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information		
	K6_W03		The student determines the optimal capital structure depending on various criteria		[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge		
	K6_U05		The student uses functions to demonstrate cause and effect relationships describing the company's liabilities and assets		[SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information		
Subject contents	The essence and subject of financial management. Enterprise assets. Sources of financing the company's activities. Cost of capital and its structure. Problems of managing working capital (forming liquidity) and permanent capital. Cash management in the enterprise. Management of receivables and liabilities. Supplies management. Enterprise investment decisions. Revenues, costs and financial result of the company.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Seminar test		60.0%		50.0%		
	Lecture test		60.0%		50.0%		

Recommended reading	Basic literature	<p>1. E. W. Davis, J. Pointon, Finanse i firma, PWE, Warszawa 1997</p> <p>2. W. Bień, A. Bień, Kalkulacja ceny pieniądza w lokatach, pożyczkach i kredytach, Difin, Warszawa 2009</p> <p>3. D. G. Luenberger, Teoria inwestycji finansowych, PWN, Warszawa 2003</p> <p>4. J. Czekaj, Z. Dresler, Zarządzanie finansami przedsiębiorstw, PWN, Warszawa 2006</p> <p>5. B. Pomykalska, P. Pomykalski, Analiza finansowa przedsiębiorstwa, PWN, Warszawa 2007</p>
	Supplementary literature	<p>1. J. Ostaszewski, Nowoczesne zarządzanie finansami firmy, Interfart, Łódź 2001.</p> <p>2. Praca zb., Tajniki finansów, K.E.Liber, Warszawa 1998</p>
	eResources addresses	
Example issues/ example questions/ tasks being completed	Calculate and interpret WACC.Calculate and interpret selected profitability, liquidity and debt ratios.Calculate and interpret NPV and IRR.Calculate and interpret the DOL, DFL and DTL levers and determine their effect.	
Work placement	Not applicable	

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