

Subject card

Subject name and code	Physical Education, PG_00178059						
Field of study	WF						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
Education level	Bachelor's studies		Subject group		Obligatory subject group 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		0.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Biuro CWFIS -> Physical Education and Sports Centre -> Vice-Rector for Student Affairs -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor						
	Teachers						
Lesson types	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		0.0		0.0	30
Subject objectives	<p>- shaping the need for constant physical activity as part of a pro-healthy lifestyle,</p> <p>- popularization of various forms of physical activity: sports, tourism and recreation, rehabilitation</p> <p>,- formation of general physical fitness and movement skills and habits in the field of selected disciplines,</p> <p>- supporting harmonious psychophysical development</p>						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
Subject contents	Depending on the type of activities selected by the student from the CWFIS offer: badminton, body and mind, aerobic exercise with body shaping elements, strength training, fitness, full body workout, compensatory and corrective gymnastics, golf, yoga, basketball, ice skating, outdoor marching with athletics elements, skiing, swimming lessons, nirvana fitness, Nordic walking, soccer, indoor soccer, swimming, power pump, self-defense, volleyball, stretching with yoga elements, tabata, modern dance, beginner tennis, intermediate tennis, table tennis, trekking, cardio training, circuit training, bicycle training, floorball, sport climbing, zumba, sailing, theory classes.						
Prerequisites and co-requisites	No requirements						
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Credit is based on attendance and active participation in class		100.0%		100.0%		
Recommended reading	Basic literature						
	Supplementary literature						
	eResources addresses						

Example issues/ example questions/ tasks being completed	
Work placement	Not applicable

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Subject card

Subject name and code	Financial Reporting, PG_00178614						
Field of study	Financial Reporting						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
Education level	Bachelor's 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	3		ECTS credits		5.0		
Learning profile	academic		Assessment form		exam		
Conducting unit	Department of Banking and Finance -> Faculty of Management -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Marta Penczar				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	30.0	0.0	0.0	0.0	60
	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	60		4.0		61.0	125
Subject objectives	The aim of the course is to familiarize students with the financial reporting process, its underlying principles, standards, and the differences across countries and corporations. Students will learn to understand the contents of a financial statement and use this knowledge for further analysis.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[FiRL3_W06] To an advanced degree, the student knows and understands the objectives, essence, nature and interrelationships of financial processes, ways of recording them, and the principles of rational decision-making and implementation of changes in this area.	The student demonstrates advanced knowledge and understanding of the objectives, core principles, nature, and interrelationships of financial reporting processes, including methods of recording financial transactions, the structure and purpose of financial statements, and the regulatory and conceptual foundations that support rational financial decision-making and adaptation to changes in financial reporting environments.	[SW4] test/egzamin - ustny lub pisemny [SW2] prezentacja/projekt/referat/raport
	[FiRL3_U01] The student can analyze and interpret socio-economic processes and phenomena—from the finance and accounting perspective—using knowledge and tools from management, quality sciences, economics, and finance.	The student is able to analyze and interpret financial information and economic phenomena using appropriate accounting methods and tools, applying interdisciplinary knowledge from management, economics, and finance to assess the financial condition of an entity, identify trends, and support data-driven decision-making in a changing business environment.	[SU2] prezentacja/projekt/referat/raport [SU4] test/egzamin - ustny lub pisemny
	[FiRL3_W05] To an advanced degree, the student knows and understands the tools and techniques for obtaining, compiling, and analyzing the data necessary to assess the financial situation of various entities in management, quality sciences, economics, and finance.	Upon completion of the course, the student knows and understands the objectives, fundamental nature, characteristics, and interrelationships of financial reporting processes, applicable reporting standards, the methods of recording financial transactions, and the principles guiding rational decision-making and implementation of changes within financial reporting and management practices	[SW4] test/egzamin - ustny lub pisemny [SW2] prezentacja/projekt/referat/raport
	[FiRL3_U04] The student is able—from the perspective of finance and accounting—to correctly select and properly apply methods and tools from the fields of management and quality sciences, economics, and finance to analyse and forecast economic processes and evaluate economic phenomena.	The student is able to select and apply appropriate analytical methods and tools from finance, accounting, economics, and management sciences to analyze financial data and forecast business outcomes, taking into account the specific context of financial reporting and decision-making in dynamic organizational environments	[SU2] prezentacja/projekt/referat/raport [SU4] test/egzamin - ustny lub pisemny
	[FiRL3_W08] The student has advanced knowledge and understanding of the interrelationship of accounting and finance with business in a changing environment and the accompanying contemporary challenges and dilemmas in this context.	The student demonstrates advanced knowledge and understanding of the role and interrelationship of accounting and financial reporting within the broader business context, particularly in a dynamic and evolving environment, including awareness of contemporary challenges, regulatory developments, and ethical dilemmas affecting financial decision-making and disclosure.	[SW4] test/egzamin - ustny lub pisemny [SW2] prezentacja/projekt/referat/raport

Subject contents	<div>1. Introduction to financial reporting - the importance of financial reporting for various stakeholders</div> <div>2. Financial reporting process (regulatory issues, reporting standards: local vs international, people involved, reporting timeline)</div> <div>3. Financial reporting elements - an overview of key financial statements (statement of financial position, statement of comprehensive income, statement of changes in equity, and statement of cash flows)</div> <div>4. Financial statement notes and supplementary information</div> <div>5. Understanding balance sheet (key components and presentation formats)</div> <div>6. Understanding income statement and comprehensive income (key components and presentation formats)</div> <div>7. Understanding cash flow statements (key components and presentation formats)</div> <div>8. Long term assets, Current Assets (accounting choices, valuation and reporting treatment, recent changes in standards)</div> <div>9. Equity components, Liabilities (accounting choices, valuation and reporting treatment, recent changes in standards)</div> <div>10. Revenues and expenses, gains and losses, reporting profit, EPS (accounting choices and recognition, recent changes in standards)</div> <div>11. Income taxes (current tax, deferred tax)</div> <div>12. Intercorporate Investments (financial assets and their classification, investment in associates, joint ventures, SPE/VIEs, business combinations and consolidation issues)</div> <div>13. Multinational Operations (FX impact on financial statements)</div> <div>14. Financial reporting quality and red flags</div>											
Prerequisites and co-requisites												
Assessment methods and criteria	<table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>Written tests</td><td>51.0%</td><td>60.0%</td></tr><tr><td>Group project</td><td>51.0%</td><td>40.0%</td></tr></table>	Subject passing criteria	Passing threshold	Percentage of the final grade	Written tests	51.0%	60.0%	Group project	51.0%	40.0%		
Subject passing criteria	Passing threshold	Percentage of the final grade										
Written tests	51.0%	60.0%										
Group project	51.0%	40.0%										
Recommended reading	Basic literature	<div>1. Robinson T.R., Henry E., Pirie W.L, Broihahn M.A., Cope A.T.: International Financial Statement Analysis, Any Edition, Wiley 2015.</div> <div>1. Melville A: International Financial Reporting. Any Edition Pearson 2019</div>										
	Supplementary literature	<div>1. Schilit H.M., Perler J.: Financial Shenanigans. Any Edition, McGraw Hill 2010.</div> <div>1. El Diri M.: Introduction to earning management, Springer International Publishing Springer 2018</div> <div>1. IFRS 9, IFRS 15, IFRS 16</div>										
	eResources addresses											
	Example issues/ example questions/ tasks being completed											
Work placement	Not applicable											

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Subject card

Subject name and code	Financial Markets, PG_00178615						
Field of study	Financial Markets						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
Education level	Bachelor's 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	3		ECTS credits		5.0		
Learning profile	academic		Assessment form		exam		
Conducting unit	Department of Investment and Real Estate -> Faculty of Management -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Krzysztof Kowalke				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	30.0	0.0	0.0	0.0	60
	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	60		4.0		61.0	125
Subject objectives	The aim of the course is to provide students with an understanding of the fundamentals of financial markets and to prepare them to identify, analyse and manage financial instruments.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[FiRL3_U04] The student is able—from the perspective of finance and accounting—to correctly select and properly apply methods and tools from the fields of management and quality sciences, economics, and finance to analyse and forecast economic processes and evaluate economic phenomena.	The student is able to choose and utilize suitable valuation methods and risk metrics for financial instruments to support investment decision-making.	[SU4] test/egzamin - ustny lub pisemny [SU5] realizacja zadania problemowego
	[FiRL3_U01] The student can analyze and interpret socio-economic processes and phenomena—from the finance and accounting perspective—using knowledge and tools from management, quality sciences, economics, and finance.	The student can assess the rates of return, risk, and valuation of financial instruments, and apply these insights in investment decision-making on financial markets.	[SU4] test/egzamin - ustny lub pisemny [SU5] realizacja zadania problemowego
	[FiRL3_W02] The student has advanced knowledge and understanding of the functioning of the domestic and international financial market and financial instruments and institutions.	The student defines and describes the characteristics of financial markets, and identifies types of financial markets, institutions operating within them, and categories of financial instruments.	[SW4] test/egzamin - ustny lub pisemny
	[FiRL3_W03] The student knows and understands, to an advanced degree - from the perspective of finance and accounting - the internal and external relations of institutions and organizations with particular emphasis on financial security systems.	The student identifies basic relationships between institutions in financial markets (e.g. the Polish Financial Supervision Authority, the U.S. Securities and Exchange Commission, the Warsaw Stock Exchange, or the New York Stock Exchange) and is able to describe the functions they perform in public financial markets.	[SW4] test/egzamin - ustny lub pisemny
	[FiRL3_W08] The student has advanced knowledge and understanding of the interrelationship of accounting and finance with business in a changing environment and the accompanying contemporary challenges and dilemmas in this context.	The student recognizes the impact of a company's fundamentals and financial market anomalies on the value of its shares in financial markets.	[SW4] test/egzamin - ustny lub pisemny [SW5] realizacja zadania problemowego
Subject contents	1. Structure of financial market 2. Financial market institutions 3. Financial market instruments 4. Market indexes 5. Rates of return and risk on investment on the financial market 6. Introduction to the valuation of financial instruments 7. Theory of market efficiency 8. Anomalies on the financial market 9. Introduction to the derivatives market		
Prerequisites and co-requisites	The student is expected to have a basic understanding of financial mathematics.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Two written tests as a form of assessment for the tutorials	51.0%	50.0%
	Exam	51.0%	50.0%
Recommended reading	Basic literature	1. Corporate finance and portfolio management, CFA Program Curriculum, Level I, Volume 4, 2019 2. Equity and fixed income, CFA Program Curriculum, Level I, Volume 5, 2019	
	Supplementary literature	1. F.J. Fabozzi: Bond Markets, Analysis and Strategies, Pearson, 2012 2. F. K. Reilly, K. C. Brown: Analysis of Investments and Management of Portfolios, Cengage Learning, 2015	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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Subject card

Subject name and code	Corporate Finance & Taxes, PG_00178616						
Field of study	Corporate Finance & Taxes						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
Education level	Bachelor's 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	3		ECTS credits		6.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Department of Corporate Finance -> Faculty of Management -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Julia Koralun-Bereźnicka				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	30.0	0.0	0.0	0.0	60
	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	60		4.0		86.0	150
Subject objectives	To enable Students to understand and solve basic tasks related to the following areas of corporate finance: cost of capital, taxation, leverage, dividend and working capital.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[FiRL3_W03] The student knows and understands, to an advanced degree - from the perspective of finance and accounting - the internal and external relations of institutions and organizations with particular emphasis on financial security systems.	<ul style="list-style-type: none"> - The student explains the relationship between a company's capital structure, dividend policy, and liquidity position. - The student understands how tax systems affect corporate financial decisions in areas such as financing, payout policies, and working capital management. - The student recognises how financial practices are shaped by institutional, legal, and fiscal frameworks 	[SW4] test/egzamin - ustny lub pisemny [SW2] prezentacja/projekt/referat/raport [SW5] realizacja zadania problemowego
	[FiRL3_W08] The student has advanced knowledge and understanding of the interrelationship of accounting and finance with business in a changing environment and the accompanying contemporary challenges and dilemmas in this context.	<ul style="list-style-type: none"> - The student identifies how corporate financial decisions (e.g. capital structure, working capital, dividends) are influenced by evolving market conditions, tax policies, and regulatory frameworks. - The student understands the implications of financial and accounting data for managing business liquidity, profitability, and long-term financial stability. - The student recognizes challenges in aligning financial strategy with business goals under uncertainty, including issues related to taxation, cost of capital, and financial leverage. 	[SW4] test/egzamin - ustny lub pisemny [SW2] prezentacja/projekt/referat/raport [SW5] realizacja zadania problemowego
	[FiRL3_U04] The student is able—from the perspective of finance and accounting—to correctly select and properly apply methods and tools from the fields of management and quality sciences, economics, and finance to analyse and forecast economic processes and evaluate economic phenomena.	<ul style="list-style-type: none"> - The student calculates key financial measures, including WACC, breakeven quantities, degrees of leverage, and cash conversion cycles. - The student evaluates working capital components and proposes strategies for liquidity improvement. - The student integrates financial and tax-related data to support decisions on financing methods, payout strategies, and capital cost estimation. 	[SU4] test/egzamin - ustny lub pisemny [SU5] realizacja zadania problemowego
	[FiRL3_W09] The student with an advanced degree knows and understands the general principles of creating and developing various forms of entrepreneurship using knowledge from management, quality sciences, economics and finance.	<ul style="list-style-type: none"> - The student explains how core concepts of corporate finance—such as WACC, financial leverage, and liquidity—inform financial planning and capital acquisition strategies in entrepreneurial ventures. - The student understands the role of financial policies, including dividend policy and tax planning, in supporting sustainable business development. - The student applies interdisciplinary knowledge to assess how financial and fiscal strategies contribute to the scalability and resilience of business models. 	[SW4] test/egzamin - ustny lub pisemny [SW2] prezentacja/projekt/referat/raport [SW5] realizacja zadania problemowego

	Course outcome	Subject outcome	Method of verification
	[FiRL3_W02] The student has advanced knowledge and understanding of the functioning of the domestic and international financial market and financial instruments and institutions.	<ul style="list-style-type: none"> - The student identifies and explains key concepts and measures related to the cost of capital, including WACC, cost of equity and debt, and the role of taxes in capital cost estimation. - The student understands various forms of financial leverage and their implications for a company's risk and profitability. - The student characterises the main forms of dividend distribution and share repurchases and explains their financial and regulatory implications. 	[SW4] test/egzamin - ustny lub pisemny [SW2] prezentacja/projekt/referat/raport [SW5] realizacja zadania problemowego
	[FiRL3_U01] The student can analyze and interpret socio-economic processes and phenomena—from the finance and accounting perspective—using knowledge and tools from management, quality sciences, economics, and finance.	<ul style="list-style-type: none"> - The student applies financial ratios and models to assess cost of capital, leverage levels, and working capital effectiveness. - The student interprets how changes in tax policy, interest rates, or operating conditions influence a company's financial decisions. - The student analyses the effects of different dividend and liquidity strategies on firm performance. 	[SU2] prezentacja/projekt/referat/raport [SU4] test/egzamin - ustny lub pisemny [SU5] realizacja zadania problemowego
Subject contents	<ol style="list-style-type: none"> 1. Cost of capital: weighted average cost of capital, tax effect, alternative methods of calculating the weights used in the WACC; marginal cost of capital, optimal capital budget, the role of marginal cost of capital in determining the net present value of a project, cost of debt capital according to yield-to-maturity approach and the debt-rating approach; cost of noncallable, nonconvertible preferred stock; cost of equity capital according to capital asset pricing model approach, the dividend discount model approach, and the bond-yield-plus risk-premium approach; beta, country risk premiums, marginal cost of capital schedule, flotation costs. 2. Measures of leverage: business risk, sales risk, operating risk, financial risk, degree of operating leverage, degree of financial leverage, degree of total leverage; effect of financial leverage on a company's net income and return on equity; breakeven quantity of sales, operating breakeven quantity of sales. 3. Dividends and share repurchases: regular cash dividends, extra dividends, stock dividends, stock splits, reverse stock splits, dividend payment chronology, share repurchase methods; the effect of a share repurchase on earnings per share, the effect of a share repurchase on book value per share. 4. Working capital management: primary and secondary sources of liquidity and factors influencing a company's liquidity position; liquidity measures; working capital effectiveness based on operating and cash conversion cycles, company's net daily cash position; yields on various securities, management of accounts receivable, inventory, and accounts payable. 5. Taxes: Introduction to taxation and its role in financial decision-making; principles of taxation; types of taxes relevant to individuals and corporations; tax planning, tax avoidance, and tax evasion; overview of international tax considerations 		
Prerequisites and co-requisites	No prerequisites are required.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Group project with presentation	51.0%	33.0%
	Written test	51.0%	67.0%

Recommended reading	Basic literature	<ol style="list-style-type: none"> 1. M.R. Clayman, M.S. Fridson, G.H. Troughton, Corporate Finance. A Practical Approach, CFA Institute, Wiley, any edition. 2. Corporate Finance, CFA Program Curriculum, Level II, Vol. 3, Wiley, any edition.
	Supplementary literature	<ol style="list-style-type: none"> 1. S.A. Ross, R.W. Westerfield, B.D. Jordan (2010), Fundamentals of Corporate Finance, Mc Graw-Hill Irwin, any edition. 2. R. Brealey, S. Myers, F. Allen, Principles of Corporate Finance, McGraw-Hill, any edition.
	eResources addresses	
Example issues/ example questions/ tasks being completed	<ol style="list-style-type: none"> 1. Evaluate the impact of corporate income tax on the optimal capital structure of a firm. How does the tax shield from debt financing influence the weighted average cost of capital (WACC)? 2. Analyze how financial leverage affects a companys return on equity (ROE) under different economic scenarios. Calculate and interpret the degree of financial leverage (DFL) using hypothetical income statement data 	
Work placement	Not applicable	

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Subject card

Subject name and code	Probability Concepts, PG_00178625						
Field of study	Probability Concepts						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
Education level	Bachelor's 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	3		ECTS credits		5.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Department of Statistics -> Faculty of Management -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Anna Gierusz-Matkowska				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	30.0	0.0	0.0	0.0	60
	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	60		4.0		61.0	125
Subject objectives	Learn basic concepts of probability, including types of random variables and their distributions, properties and applications						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[FiRL3_U03] The student can obtain data and verify its accuracy from appropriately selected sources and use these data to analyse and evaluate economic processes and phenomena in management and quality sciences, economics and finance.	Student uses data to calculate probabilities of financial events	[SU4] test/egzamin - ustny lub pisemny
	[FiRL3_U02] The student can identify, analyze or design adequate solutions to problems in finance and accounting.	Student selects appropriate probability distribution to a given problem and calculates probabilities and parameter values using known distributions	[SU4] test/egzamin - ustny lub pisemny
	[FiRL3_U01] The student can analyze and interpret socio-economic processes and phenomena—from the finance and accounting perspective—using knowledge and tools from management, quality sciences, economics, and finance.	Student employs probability distributions to model financial and investment phenomena	[SU4] test/egzamin - ustny lub pisemny
	[FiRL3_W05] To an advanced degree, the student knows and understands the tools and techniques for obtaining, compiling, and analyzing the data necessary to assess the financial situation of various entities in management, quality sciences, economics, and finance.	Student recognizes different types of random variables, identifies appropriate probability distribution for a given problem	[SW4] test/egzamin - ustny lub pisemny
Subject contents	<p>definition of a random variable, an outcome, an event, mutually exclusive events, and exhaustive events; two defining properties of probability and distinguishing among empirical, subjective, and a priori probabilities; the probability of an event in terms of odds for and against the event; distinguishing between unconditional and conditional probabilities; the multiplication, addition, and total probability rules; calculation and interpretation of 1) the joint probability of two events, 2) the probability that at least one of two events will occur, given the probability of each and the joint probability of the two events, and 3) a joint probability of any number of independent events; distinguishing between dependent and independent events; calculation and interpretation of an unconditional probability using the total probability rule; the use of conditional expectation in investment applications; the use of a tree diagram to represent an investment problem; calculation and interpretation of covariance and correlation; calculation and interpretation of the expected value, variance, and standard deviation of a random variable and of returns on a portfolio; calculation and interpretation of covariance given a joint probability function; calculation and interpretation of an updated probability using Bayes formula; the most appropriate method to solve a particular counting problem, and solving counting problems using factorial, combination, and permutation concepts, definition of a probability distribution and distinguishing between discrete and continuous random variables and their probability functions; the set of possible outcomes of a specified discrete random variable; interpretation of a cumulative distribution function; calculation and interpretation of probabilities for a random variable, given its cumulative distribution function; definition of a discrete uniform random variable, a Bernoulli random variable, and a binomial random variable; calculation and interpretation of probabilities given the discrete uniform and the binomial distribution functions; construction of a binomial tree to describe stock price movement; calculation and interpretation of tracking error; definition of the continuous uniform distribution and calculation and interpretation of probabilities, given a continuous uniform distribution; the key properties of the normal distribution; distinguishing between a univariate and a multivariate distribution, and the role of correlation in the multivariate normal distribution; the probability that a normally distributed random variable lies inside a given interval; definition of the standard normal distribution, how to standardize a random variable, and calculation and interpretation of probabilities using the standard normal distribution; definition of shortfall risk, calculation of the safety- first ratio, and selection of an optimal portfolio using Roys safety- first criterion; the relationship between normal and lognormal distributions and why the lognormal distribution is used to model asset prices; distinguishing between discretely and continuously compounded rates of return, and calculation and interpretation of a continuously compounded rate of return, given a specific holding period return; Monte Carlo simulation and its major applications and limitations; Monte Carlo simulation and historical simulation.</p>		
Prerequisites and co-requisites	Knowledge from two subjects: 1. Descriptive Statistics 2. Mathematics for Economics		

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	mid term written assessment	51.0%	50.0%
	end term written assessment	51.0%	50.0%
Recommended reading	Basic literature	A. Aczel, J. Sounderpandian Complete Business Statistics with Student CD, The McGraw-Hill/Irwin Series 2009 Bruce Hansen, Probability and statistics for economists, Princeton University Press, 2022.	
	Supplementary literature	Richard A. DeFusco, Dennis W. McLeavey, Jerald E. Pinto, David E. Runkle, Mark J. P. Anson, Quantitative Investment Analysis, 3rd Edition, Wiley and Sons 2016 Ken Black, Applied Business Statistics: Making Better business Decision, John Wiley and Sons 2011 Richard A. Johnson, Gouri K. Bhattacharyya, Statistics: Principles and Methods, John Wiley and Sons, 2011 David Ray Anderson, Dennis J. Sweeney, Thomas Arthur Williams, Thomas A. Williams, Statistics for business and economics, Cengage Learning, 2010 Gierusz A., Application of deferred annuities in an occupational pension scheme. W: Pensions today - economic, managerial, and social issues, Chybalski Filip (red.), Marcinkiewicz Edyta (red.), Wydawnictwo Politechniki Łódzkiej, Łódź 2021	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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Subject card

Subject name and code	Management, PG_00178626						
Field of study	Management						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
Education level	Bachelor's 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 English		
Semester of study	3		ECTS credits		5.0		
Learning profile	academic		Assessment form		exam		
Conducting unit	Department of Organisation and Management -> Faculty of Management -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Wojciech Machel				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	30.0	0.0	0.0	0.0	60
	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	60		4.0		61.0	125
Subject objectives	The aim of the course is to introduce students to the basics of organisational management science, including the complexity and interdisciplinary nature of management science and quality as a subject (field of knowledge) that permeates all aspects of organisational functioning, with particular emphasis on management functions and tools.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[FiRL3_W04] The student has advanced knowledge and understanding of the role and place of man in financial structures and his behaviour in organisations, both at the individual, group, and institutional levels.		The student is able to present the place and role of management sciences in the context of achieving business and financial goals		[SW4] test/egzamin - ustny lub pisemny [SW2] prezentacja/projekt/referat/ raport		
	[FiRL3_W01] The student has advanced knowledge and understanding of the nature and evolution of management, quality, economics, and finance theories and their place in the social sciences system, particularly from the perspectives of finance and accounting.		The student knows and understands the relationships prevailing in the organization resulting from intra-organizational relations.		[SW4] test/egzamin - ustny lub pisemny [SW2] prezentacja/projekt/referat/ raport		
	[FiRL3_U02] The student can identify, analyze or design adequate solutions to problems in finance and accounting.		The student analyses and interprets complex problems related to the functioning of contemporary organisations and proposes a solution to the financial problems.		[SU1] wypowiedź ustna/rozmowa/ dyskusja [SU2] prezentacja/projekt/referat/ raport		

Subject contents	1. The evolution of management concepts. 2. Management functions. 3. Managerial competences. 4. Managing styles. 5. Decision making in organizations. Individual and collective decisions., 6. Strategic planning: strategic analysis, elements of strategy, strategic choice. 7. Organization and organization process. definitions and types of organization. models of an organisation. organization as a system. Organizational ties. classic and contemporary organizational structures and their characteristics. Business ecosystem. 8. Human resources management (recruitment, job description, evaluation) and motivating (wage and non-wage incentives). 9. Controlling in organizations. strategic balanced scorecard. 10. Organizational culture organizational environment. Social responsibility of an organization 11. Development of an organisation: development stages according to greiner, innovation and restructuring.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	test	51.0%	50.0%
	Project, case study, presentation	51.0%	50.0%
Recommended reading	Basic literature	1. Griffin R.W. (2016) Management, Cengage Learning 2. S. P. Robbins , M. A. Coulter , Management, 2020 3. Mahajan J.P (2010) Business Organisation and Management, Mumbai, Himalaya Publishing House; 4. Sharma V. (2008) Business Environment: Concepts and Technics. Jaipur, IND:Book Enclave 5. Bhattacharyya D.K. (2009) Organisational Systems, Design, Structure and Management. Mumbai, IND: Himalaya Publishing 6. A. H. Cortes , E. Hartmann , Principles of Management	
	Supplementary literature	1. Drucker P. (2006) The Effective Executive: The Definitive Guide to Getting the Right Things Done	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Why are we managing organizations? List the functions of management. Which managers become leaders? In which organisational situations is it better to make decisions alone and in which situations to make decisions as a team? Does the organisation need to change? How do you manage a multi-generational team? Why is strategy important?		
Work placement	Not applicable		

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Subject card

Subject name and code	English language 3, PG_00180210						
Field of study	English language 3						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
Education level	Bachelor's studies		Subject group		Optional subject group		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	2		Language of instruction		English English: 90% Polish: 10%		
Semester of study	3		ECTS credits		2.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Zespół lektorów języka angielskiego -> Foreign Languages Centre -> Vice-Rector for Education -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		mgr Agnieszka Błaszowska				
	Teachers						
Lesson types	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		2.0		18.0	50
Subject objectives	Developing student's language skills: speaking, reading, writing, listening so that they reflect learner's academic, professional and personal needs, as well as job market requirements						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[FiRL3_U08] The student can speak a foreign language at the B2 level of the Common European Framework of Reference for Languages, specifically in finance and accounting.		- can prepare typical written compositions in a foreign language on topics related to his/ her field of study - can prepare oral presentations in a foreign language concerning matters related to his/her field of study - has language skills corresponding to the requirements of level B2 of the Common European Framework of Reference for Languages		[SU1] wypowiedź ustna/rozmowa/ dyskusja [SU2] prezentacja/projekt/referat/ raport [SU3] opracowanie tekstowe/ praca pisemna [SU4] test/egzamin - ustny lub pisemny [SU5] realizacja zadania problemowego [SU6] demonstracja umiejętności praktycznych [SU8] obserwacja samodzielnej lub zespołowej pracy studenta		

Subject contents	I. Language and skills applicable to a specific job environment, in the context of the selected field of study, such as: <ul style="list-style-type: none">• telephoning• meetings• teamwork and team building• business correspondence• presentations• negotiations• recruitment• cross-cultural communication II. ESP and academic language components up to 30% or less of the course contents. III. Revision and consolidation of grammar rules.		
Prerequisites and co-requisites	Suggested foreign language entry level: B1 or higher (according to CEFR)		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Written and oral assignments, including student's self-study	51.0%	100.0%
Recommended reading	Basic literature	<ul style="list-style-type: none">• Dubicka, Iwonna, et al. Business Partner. Pearson, 2018. (levels B1+ to C1)• extra materials shared by the teacher, including those downloadable from cjo.ug.edu.pl/studenci	
	Supplementary literature	Internet resources, such as: - dictionaries, e.g. merriam-webster.com , dictionary.cambridge.org , pl.bab.la , diki.pl - TED, TEDed: ted.com , ed.ted.com - Coursera: coursera.org - Khan Academy: khanacademy.org - Web applications	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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Subject card

Subject name and code	German language 3, PG_00180211						
Field of study	German language 3						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
Education level	Bachelor's studies		Subject group		Optional subject group		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	2		Language of instruction		German German 90% Polish 10%		
Semester of study	3		ECTS credits		2.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Zespół lektorów języków germańskich, romańskich i słowiańskich -> Foreign Languages Centre -> Vice-Rector for Education -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Anna Trynkler-Zalaszevska				
	Teachers						
Lesson types	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		2.0		18.0	50
Subject objectives	Developing student's language skills: speaking, reading, writing, listening so that they reflect learner's academic, professional and personal needs, as well as job market requirements						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[FiRL3_U08] The student can speak a foreign language at the B2 level of the Common European Framework of Reference for Languages, specifically in finance and accounting.		- can prepare typical written compositions in a foreign language on topics related to his/ her field of study - can prepare oral presentations in a foreign language concerning matters related to his/her field of study - has language skills corresponding to the requirements of level B2 of the Common European Framework of Reference for Languages		[SU1] wypowiedź ustna/rozmowa/ dyskusja [SU2] prezentacja/projekt/referat/ raport [SU4] test/egzamin - ustny lub pisemny		

Subject contents	<div>1. Language and skills applicable to a specific job environment, in the context of the selected field of study, such as:<ul style="list-style-type: none">• telephoning• meetings• teamwork and team building• business correspondence• presentations• negotiations• recruitment• cross-cultural communication</div> <div>1. ESP and academic language components up to 30% or less of the course contents.</div> <div>2. Revision and consolidation of grammar rules.</div> <div>3. Any doubts related to the material covered in foreign language classes will also be discussed/ clarified during teacher's office hours for students</div>		
Prerequisites and co-requisites			
Assessment methods and criteria	<div>Subject passing criteria</div> <div>Written and oral assignments, including student's self-study</div>	<div>Passing threshold</div> <div>51.0%</div>	<div>Percentage of the final grade</div> <div>100.0%</div>
Recommended reading	<div>Basic literature</div> <div>Supplementary literature</div> <div>eResources addresses</div>	<div>Grigull, Ingrid, Geschäftliche Begegnungen, Schubert, 2024</div> <div>extra materials shared by the teacher</div>	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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Subject card

Subject name and code	Spanish language 3, PG_00180212						
Field of study	Spanish language 3						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
Education level	Bachelor's studies		Subject group		Optional subject group		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	2		Language of instruction		Spanish Spanish 90% Polish 10%		
Semester of study	3		ECTS credits		2.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Zespół lektorów języków germańskich, romańskich i słowiańskich -> Foreign Languages Centre -> Vice-Rector for Education -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		mgr Oliwia Grzegorzczuk				
	Teachers						
Lesson types	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		2.0		18.0	50
Subject objectives	Developing student's language skills: speaking, reading, writing, listening so that they reflect learner's academic, professional and personal needs, as well as job market requirements.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[FiRL3_U08] The student can speak a foreign language at the B2 level of the Common European Framework of Reference for Languages, specifically in finance and accounting.		The student is able to use a foreign language at the B2 level of the Common European Framework of Reference for Languages (CEFR) in the field of finance and accounting.		[SU1] wypowiedź ustna/rozmowa/ dyskusja [SU2] prezentacja/projekt/referat/ raport [SU3] opracowanie tekstowe/ praca pisemna [SU4] test/egzamin - ustny lub pisemny [SU5] realizacja zadania problemowego		
Subject contents	<div>1. Language and skills applicable to a specific job environment, in the context of the selected field of study, such as:</div> <div><ul style="list-style-type: none">• telephoning• meetings• teamwork and team building• business correspondence• presentations• negotiations• recruitment• cross-cultural communication</div> <div>2. ESP and academic language components up to 30% or less of the course contents.</div> <div>3. Revision and consolidation of grammar rules.</div> <div>4. Any doubts related to the material covered in foreign language classes will also be discussed / clarified during teachers office hours for students.</div>						

Prerequisites and co-requisites	Suggested foreign language entry level: B1 or higher (according to CEFR)		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	tests/presentations/writings	51.0%	65.0%
	home assignments	51.0%	10.0%
	active class participation	51.0%	10.0%
	attendance	51.0%	15.0%
Recommended reading	Basic literature	Tano, Marcelo Rubén, "Expertos Libro y Cuaderno digitales B2", Difusión, 2016.	
	Supplementary literature	"EMPRESA SIGLO XXI - LIBRO DEL ALUMNO" B2-C1, Edinumen, 2009. "Nuevo Espanol en marcha" , SGEL, 2019. Arriba, Editnos, 2018. Aula Internacional, Difusión, 2017. C. Romero Dueñas, Competencia gramatical en uso", Edelsa, 2015. Extra materials shared by the teacher.	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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