

Subject card

Subject name and code	Portfolio Analysis, PG_00157021						
Field of study	Finance and Accounting						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2026/2027		
Education level	undergraduate 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	3		Language of instruction		English english		
Semester of study	6		ECTS credits		6.0		
Learning profile	academic		Assessment form				
Conducting unit	Katedra Ekonometrii -> Faculty of Management						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Anna Zamojska				
	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		16.0		74.0	150
Subject objectives	Gaining practical skills: statistical analysis of the distribution of rates of return on securities and their mutual dependencies, selection of securities for a portfolio, assessment of the effectiveness of investment portfolio management using Excel and Gretl.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[FiRL3_K03] Communication: - is able to present his view, issue in a way that others can understand - boldly (but thoughtfully) expresses his opinion, is not afraid to ask questions - is able to culturally participate in discussions - is able to give constructive criticism.	Student acts as a team player or team leader to complete classroom activities or course project, and moderates and participates in discussions, expresses own opinions and constructive criticism about projects of peer students.	[SK1] oral statement/conversation/discussion [SK8] observation of student's independent or team work
	[FiRL3_U04] The student can forecast economic processes and phenomena in finance and accounting using advanced methods and tools.	Student can: select adequate statistical measure and justify the choice, construct set of portfolios for different wages, estimate and interpret the CAPM, calculate portfolio performance ratios.	[SU3] text preparation/written work [SU6] demonstration of practical skills
	[FiRL3_W02] The student has advanced knowledge of various types of economic structures and institutions and changes in them, in particular: banking system, insurance system, taxation system, financial markets, organization of the public finance system and the private sector. The student knows the interrelationships between these structures and social institutions on a national and international scale.	Student knows how to: describe investment environment, compare the individual and institutional investor portfolios.	[SW4] test/exam - oral or written [SW3] text preparation/written work
	[FiRL3_W06] The student has advanced knowledge of methods and tools, including data acquisition and analysis techniques, appropriate to management science and quality, which allow describing economic structures and institutions and the processes within and between them.	Student knows how to: calculate and interpret the different types of rate of returns, obtain and interpret the distribution of the rate of returns, construct a portfolio in the risk-return framework and evaluate portfolio performance.	[SW4] test/exam - oral or written [SW3] text preparation/written work
	[FiRL3_U03] The student can properly analyse the causes, course and effects of specific processes and phenomena in finance and accounting, using advanced theories and relevant social sciences methods. Can identify stakeholders of processes and phenomena from the disciplines of management and quality sciences and economics and finance.	The student has in-depth skills in preparing an empirical analysis using theoretical elements and presenting the results of an independently conducted portfolio analysis.	[SU5] implementation of a problem task [SU6] demonstration of practical skills
	[FiRL3_K02] Cooperation: - can harmoniously interact and work in a group, taking on different roles in it - is able to agree with the group on goals and division of tasks - is open-minded and respects the differences of other team members.	The student is able to cooperate and work in a group, is open to the opinions of others and is able to discuss topics related to the analysis of an investment portfolio.	[SK8] observation of student's independent or team work
Subject contents	1. Basic concepts of portfolio analysis in the light of the mean variance theory of rates of return. 2. Data sources for the analysis of a securities portfolio. 3. Examination of the properties of rates of return of securities and their mutual structure of dependencies. 4. Construction of a portfolio of securities, average rate of return and portfolio risk. 5. Selected valuation models. Indicators for assessing the efficiency of portfolio management. 6. Portfolio rankings according to selected efficiency indicators. 7. Examination of the consistency and repeatability of rankings.		
Prerequisites and co-requisites	Elements of linear algebra; basics of descriptive statistics and statistical inference		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	project developed in class and at home	51.0%	50.0%
	written exam with multiple choice	51.0%	50.0%

Recommended reading	Basic literature	1. Elton E.J., Gruber M.J., Nowoczesna teoria portfelowa i analiza papierów wartościowych, WIG Press, Warszawa 1998. 2. Haugen R.A., Teoria nowoczesnego inwestowania, WIG Press, Warszawa 1996. 3. Ostrowska E., Portfel inwestycyjny klasyczny i alternatywny, C.H. Beck, Warszawa 2011. 4. Zamojska A., Ocena efektywności funduszy inwestycyjnych. Studium teoretyczno-empiryczne, C.H. Beck, Warszawa 2012.
	Supplementary literature	1. Brigham E.F., Gapenski L.C., Zarządzanie finansami t. I. PWE, Warszawa 2000. 2. Jajuga K., Jajuga T., Inwestycje, instrumenty finansowe, ryzyko finansowe, inżynieria finansowa, PWN, Warszawa 2001.
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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