


**KAPITAŁ LUDZKI**  
NARODOWA STRATEGIA SPÓJNOŚCI

Projekt współfinansowany przez  
Unię Europejską w ramach  
Europejskiego Funduszu  
Społecznego

**UNIA EUROPEJSKA**  
EUROPEJSKI  
FUNDUSZ SPOŁECZNY


Course title			ECTS code	
Portfolio Analysis			4.3.2106	
Name of unit administrating study				
Faculty of Management				
Studies				
faculty		field of study		type
Faculty of Management		Finance and Accounting		first tier studies (BA)
				form
				specialty
				specialization
all				
all				
Teaching staff				
prof. UG, dr hab. Anna Zamojska; dr Sabina Nowak				
Forms of classes, the realization and number of hours			ECTS credits	
Forms of classes			6	
Auditorium classes, Lecture			Total ECTS – 6 of which:	
The realization of activities			1 ECTS (30 h) participation in lectures	
classroom instruction			1 ECTS (30 h) participation in tutorials	
Number of hours			1 ECTS (30 h) studying the literature of the subject	
Auditorium classes: 30 hours, Lecture: 30 hours			1 ECTS (30 h) preparation of presentation	
			1 ECTS (30 h) individual case solving	
			1 ECTS (30 h) preparation for the exam	
The academic cycle				
2023/2024 summer semester				
Type of course		Language of instruction		
obligatory		English		
Teaching methods		Form and method of assessment and basic criteria for eveluation or examination requirements		
- multimedia-based lecture - problem solving - project-based method (research, implementation, practical project)		Final evaluation		
		- Graded credit - Examination		
		Assessment methods		
		- assignment work – project or presentation - written exam (test)		
		The basic criteria for evaluation		
		• credit: project developed in class and at home, passing threshold: 51%, percentage of the final grade: 50% • exam: multiple choice test, passing threshold: 51%, percentage of the final grade: 50%		
Method of verifying required learning outcomes				

NQF learning goal	Exam	Solving tasks	Project
	Knowledge		
FR1_W02	x	x	x
FR1_W06		x	x
	Skills		
FR1_U03	x	x	x
FR1_U04	x	x	x
	Social competences		
FR1_K02			x
FR1_K03		x	x

**Required courses and introductory requirements****A. Formal requirements**

Enrollment to the 6th semester

**B. Prerequisites**

Basic knowledge of elements of linear algebra; basics of descriptive statistics and statistical inference

**Aims of education**

The aim of the course is to provide students with knowledge about the portfolio analysis and about making investment decisions on the stock market based on the procedure of portfolio analysis.

**Course 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.

**Bibliography of literature**

Basic literature:

- Elton E.J., Gruber M.J., Nowoczesna teoria portfelowa i analiza papierów wartościowych, WIG Press, Warszawa 1998.  
 Haugen R.A., Teoria nowoczesnego inwestowania, WIG Press, Warszawa 1996.  
 Ostrowska E., Portfel inwestycyjny klasyczny i alternatywny, C.H. Beck, Warszawa 2011.  
 Zamojska A., Ocena efektywności funduszy inwestycyjnych. Studium teoretyczno-empiryczne, C.H. Beck, Warszawa 2012.  
 Economics, CFA Program Curriculum, Level I, Volume 2, 2019  
 Corporate finance and portfolio management, CFA Program Curriculum, Level I, Volume 4, 2019  
 Equity and fixed income, CFA Program Curriculum, Level I, Volume 5, 2019  
 Supplementary literature:  
 Brigham E.F., Gapenski L.C., Zarządzanie finansami t. I. PWE, Warszawa 2000.  
 Jajuga K., Jajuga T., Inwestycje, instrumenty finansowe, ryzyko finansowe, inżynieria finansowa, PWN, Warszawa 2001.

**The learning outcomes (for the field of study and specialization)**

FR1\_W02  
 FR1\_W06  
 FR1\_U03  
 FR1\_U04  
 FR1\_K02  
 FR1\_K03

**Knowledge**

- [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.
- [FR1\_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.

**Skills**

- [FR1\_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.

[FR1\_U04] The student can forecast economic processes and phenomena in finance and accounting using advanced methods and tools.

**Social competence**

[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.

[FIRL3\_K03] Communication: - is able to present his view or 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.

**Contact**

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