University of Gdańsk

Subject card

Subject name and code	Decision Making on Financial Market, PG_00178107		
Field of study	Informatics and Econometrics		
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 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	7.0
Learning profile	academic	Assessment form	exam
Conducting unit	Department of Econometrics -> Faculty of Management -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr Marta Chylińska	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	30.0	30.0	15.0	0.0	0.0	75

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	75	4.0	96.0	175

Subject objectives

Demonstrating that analyzing decisions in the financial market requires knowledge from various fields of science: economics, finance, management, mathematics, statistics, and econometrics. Identifying tools useful in analyzing decision-making processes.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[IiEL3_U04] Students can build and interpret models of economic and social phenomena and processes for decision-making processes.	The student is able to select and construct appropriate models supporting the implementation of decision-making processes.	[SU2] presentation/project/paper/ report
[IiEL3_U06] The student can use and integrate knowledge of management and quality sciences, economics, and finance to resolve dilemmas and complex problems that arise in professional work.	The student is able to select and construct appropriate models supporting the implementation of decision-making processes.	[SU2] presentation/project/paper/ report [SU4] test/exam - oral or written
[IiEL3_W02] To an advanced degree, the student knows and understands selected theoretical and practical issues in informatics, statistics or econometrics necessary for understanding economic and social phenomena.	The student knows and understands different types of financial data, classifies econometric models and selects methods for their estimation and verification.	[SW4] test/exam - oral or written
[IiEL3_U02] Students can select or construct econometrics, informatics or statistics tools and apply them to describe and solve economic and social problems.	The student is able to select an appropriate econometric model to solve selected issues in the field of economics and finance as well as management and quality sciences.	[SU4] test/exam - oral or written

<table>
<tr><td>Subject contents</td><td>Financial market characteristics. Prices, returns, and rates of return on financial instruments and their statistical properties. Market efficiency. Technical trading rules. Assessing the financial health of companies listed on equity markets based on their fundamental indicators. Decision-making under uncertainty and risk. The role of information in decision-making. Composing a securities portfolio. The CAPM asset pricing model. The efficiency of investing in individual financial instruments and portfolios composed of them. Decision-making by financial institutions.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td>Basic knowledge and skills acquired during previous studies in economics, finance, mathematics, statistics, and econometrics.</td></tr>
<tr><td>Assessment methods and criteria</td><td><table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>written exam</td><td>51.0%</td><td>50.0%</td></tr>
<tr><td>project</td><td>51.0%</td><td>50.0%</td></tr>
</table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>1. Dębski, W. (2014). Rynek finansowy i jego mechanizmy: podstawy teorii i praktyki, PWN
2. Mayo H. (1997), Wstep do inwestowania, LIBER</td></tr>
<tr><td>Supplementary literature</td><td>1. Edwin J. Elton, Martin J. Gruber, Stephen J. Brown, William M. Goetzmann. Modern Portfolio Theory and Investment Analysis. Wiley. Hoboken, 2014.
2. Manel Antelo, David Peón. Financial Markets. A Guided Tour. Nova Science Publishers, New York, 2012 (E-book, Biblioteka UG)
3. Anna Zamojska. Ocena efektywności funduszy inwestycyjnych. Studium teoretyczno-empiryczne, C.H. Beck, Warszawa, 2012.</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td></td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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