GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	ECONOMIC RISK ANALYSIS, PG_00067634
Field of study	Economic Analytics

Date of commencement of studies	October 2025	**Academic year of realisation of subject**	2025/2026
Education level	second-cycle 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	1	**Language of instruction**	Polish
Semester of study	1	**ECTS credits**	4.0
Learning profile	general academic profile	**Assessment form**	assessment

Conducting unit	Department Of Finance -> Faculty Of Management And Economics -> Wydziały Politechniki Gdańskiej
Name and surname of lecturer (lecturers)	Subject supervisor
	Teachers

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	15.0	0.0	30.0	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	5.0	50.0	100

Subject objectives

The objective of the course is to learn various types of risk in the economy, methods of risk hedging, and the role of financial management in minimizing and controlling the probability of risk.

Students will be prepared to use the statistical models of risk assessment (e.g. discriminant analysis, decision trees, probit & logit models). They will also learn how to evaluate and manage the factors influencing financial situation of the enterprises. Furthermore, students will learn how to perform risk analysis in various sectors of industry .

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_K01] is ready to critically evaluate his/her knowledge in economic analytics and seek expert opinions when facing difficulties in solving a problem independently.	Student is able to conduct economic risk analysis in the enterprises.	[SK5] Assessment of ability to solve problems that arise in practice
[K7_W04] has an in-depth understanding of analytical methods, reliable data sources, and copyright principles in the context of solving contemporary socio-economic problems.	Student knows factors influencing the map of risks in the firms.	[SW3] Assessment of knowledge contained in written work and projects

Subject contents	1. Introduction to the course
	2. Business activities of enterprises
	3. The role of risk management
	4. The tools of risk management
	5. Measuring the level of economic risk
	6. Symptoms and causes of business bankruptcies
	7. Methods of risk hedging
	8. Map of risk
	9. The use of discriminant analysis models
	10. The use of logit models
	11. The use of decision trees
	12. Artificial intelligence in evaluation of financial standing of the enterprises

Prerequisites and co-requisites	

Assessment methods and criteria			
	Subject passing criteria	Passing threshold	Percentage of the final grade
	Presentation	60.0%	30.0%
	Project	60.0%	70.0%

Recommended reading	Basic literature	Crouhy M., Galai D., Mark R. (2014), The essentials of risk management, 2nd edition, McGraw Hill.
		Thompson C., Hopkin P. (2021), Fundamentals of risk management: understanding, evaluating and implementing effective enterprise risk management, 6th edition. Kogan Page.
	Supplementary literature	Messenger I. (2023), Risk assessment and management: fundamentals of effective risk management. Sherman Press.
		Altman E. (1993), Corporate financial distress, John Wiley & Sons, New York.
	eResources addresses	Adresy na platformie eNauczanie:

Example issues/ example questions/ tasks being completed	Analysis of factors influencing economic risk.
	Case study of Polish enteprirses.
	Preparing the map of risk for chosen company.

Work placement	Not applicable

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