GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	ECONOMIC RISK ANALYSIS, PG_00070506
Field of study	Economic Analytics

Date of commencement of studies	October 2026	Academic year of realisation of subject	2026/2027
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	English
Semester of study	1	ECTS credits	3.0
Learning profile	general academic profile	Assessment form	exam

Conducting unit	Department of Finance -> Faculty of Management and Economics -> Faculties of Gdańsk University of Technology

Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Tomasz Korol
	Teachers	

Lesson types	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	3.0	27.0	75

Subject objectives	preparing students to conduct economic risk analyses using analytical methods and to assess factors affecting the financial situation of enterprises, based on knowledge of data sources, risk assessment methods, and copyright principles, as well as the development of attitudes related to a critical approach to information sources, responsibility for decision-making, and teamwork, in the context of making financial and strategic decisions under conditions of economic uncertainty.

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K7_U05] collaborates with others in team projects, effectively fulfilling both leadership and team member roles to achieve established goals.	is able to collaborate with others in analyzing economic risk, jointly developing solutions and, when needed, coordinating team work.	[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools
	[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.	is ready to critically assess their own knowledge and to seek expert opinions, in particular by participating in team projects and reflecting on the effectiveness of the solutions adopted during classes on economic risk analysis.	[SK1] Assessment of group work skills
	[K7_W02] understands the significance and interrelationships of key components describing economic processes, drawing on in-depth knowledge aligned with major developmental trends in scientific disciplines related to the field of economic analytics.	knows and understands complex relationships between economic risk factors and their impact on economic processes, based on current knowledge and trends in economic analytics.	[SW1] Assessment of factual knowledge

Subject contents	Course content – lecture
	1. Introduction to the subject 2. Types of economic activity of companies 3. The role of risk management 4. Risk management methods 5. Measurement of economic risk in an enterprise 6. Symptoms and causes of bankruptcy of enterprises 7. Methods of hedging against economic risk 8. Enterprise risk map 9. Trajectory of life and collapse of the enterprise
	Course content – laboratory
	1. Introduction to the labs 2. Types of economic activity of companies and the selection of two competing companies for the project 3. Initial assessment of the financial situation and risk for selected companies 4. In-depth ratio analysis for selected companies 5. Economic risk measurement for selected companies 6. Assessment of symptoms of deteriorating company situation 7. Methods of hedging against economic risk 8. Enterprise risk mapping 9. Constructing trajectory of life and collapse of the enterprise for selected companies using at least 5 statistical models
Prerequisites and co-requisites	

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Presentation and discussion	60.0%	40.0%
Team project on economic risk analysis for two selected competing enterprises.	60.0%	60.0%

Recommended reading

Basic literature	1. Crouhy M., Galai D., Mark R. (2014), The essentials of risk management, 2nd edition, McGraw Hill. 2. Thompson C., Hopkin P. (2021), Fundamentals of risk management: understanding, evaluating and implementing effective enterprise risk management, 6th edition. Kogan Page
Supplementary literature	1. Messenger I. (2023), Risk assessment and management: fundamentals of effective risk management. Sherman Press. 2. Altman E. (1993), Corporate financial distress, John Wiley & Sons, New York.
eResources addresses	

Example issues/ example questions/ tasks being completed	• Analysis of factors affecting economic risks • Case study of Polish joint-stock companies • Development of a trajectory of growth of collapse for a selected company
Practical activites within the subject	Not applicable

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