University of Gdańsk

Subject card

Subject name and code	Risk management - lecture, PG_00131766		
Field of study	Criminology		
Date of commencement of studies	October 2025	Academic year of realisation of subject	2026/2027
Education level	Bachelor's studies	Subject group	Obligatory subject group 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	1.0
Learning profile	academic	Assessment form	exam
Conducting unit	Faculty of Law and Administration -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr Karol Śledzik	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	20.0	0.0	0.0	0.0	0.0	20

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	20	0.0	5.0	25

Subject objectives

Students will learn about contemporary concepts of understanding and defining risk and risk management.Understanding risk assessment methods, including using probability interpretations appropriate in given circumstances.Acquiring skills in assessing sources of information needed to apply quantitative and qualitative methods of risk assessment, including multivariate analysis techniques.

Learning outcomes

Course outcome	Subject outcome	Method of verification

Subject contents

1. The concept of risk and concepts of its understanding and modeling. Characteristics of situations of uncertainty and threat, risk in everyday life and typical ways of estimating and communicating it. Variability, uncertainty, incomplete knowledge, lack of knowledge, "black swans". Asymmetry of information and moral hazard (temptation to abuse). Risk factors. Risk as a function of the probabilities of events and the consequences of these events. Basic interpretations of probability and their usefulness in risk analysis.2. Stages and characteristics of the risk management process. Risk management as an important sphere of management of each organization. Characteristics of the main stages of the risk management process. The importance of knowledge in effective risk management. Methods of response to risk. Risk of crime (using the example of insurance crime).3. Qualitative and quantitative methods in risk assessment A concise description of qualitative methods, including the AFD (Anticipatory Failure Determination) method. Semi-quantitative methods and the importance of signals and warnings in risk identification and measurement. Statistical methods of risk assessment, including inference based on incomplete information.4. Examples of applications of multidimensional statistical models in risk identification and prediction. Actuarial (statistical) criminology - diagnostic and prognostic tools for assessing the risk of repeat crime. Detection of abuse, fraud and swindles (fraud detection models). Economic models of crime.

Prerequisites and co-requisites

<table>
<tr><td>Assessment methods and criteria</td><td colspan="2"><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>test</td><td>51.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>1) Aven T., Risk, Surprises and Black Swans. Fundamental ideas and concepts in risk assessment and risk management. Routledge, 2014.

2) Jajuga K., Zarządzanie ryzykiem, PWN, 2018.

3) Beck U., Społeczeństwo ryzyka. W drodze do innej nowoczesności, Wydawnictwo Naukowe Scholar, 2002.

4) Wójcik D., Stosowanie w postępowaniu karnym narzędzi diagnostyczno-prognostycznych służących oszacowaniu ryzyka powrotności do przestępstwa, Instytut Wymiaru Sprawiedliwości, Warszawa 2012</td></tr>
<tr><td>Supplementary literature</td><td>1. Zalewski W. (red.), Pojęcie ryzyka a przestępczość ubezpieczeniowa, Wydawnictwo Arche, 2018.

2. Szreder M., Probabilistyczne aspekty zarządzania ryzykiem, Problemy Zarządzania. vol. 13, nr 3 (55) t. 2, 2015 r., s. 47-55.

3. Szreder M., Zrozumieć świat liczb, Wydawnictwo Uniwersytetu Gdańskiego, 2019.

4. Taleb N.N., Czarny łabędź. O skutkach nieprzewidywalnych zdarzeń, Wydawnictwo Kurhaus, 2017.

5. Jackowska B., Jurkiewicz T., Wycinka E. (2014), Rozdział: Ryzyko ubezpieczeniowe w działalności podmiotów sektora MSP; ocena zagrożenia a stopień zabezpieczenia, w: Problemy współczesnego rynku ubezpieczeń, Wydawnictwo Uniwersytetu Ekonomicznego w Poznaniu, strony 15-25

6. Kądziołka K., Modele ekonomiczne w analizie zjawiska przestępczości, Studia Ekonomiczne 2014 nr 206, strony 46-60</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="2"></td></tr>
<tr><td>Work placement</td><td colspan="2">Not applicable</td></tr>
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