



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Risk Management in Business [S1DSwB1>ZRwB]

Course

Field of study

Data Science in Business

Year/Semester

3/5

Area of study (specialization)

–

Profile of study

general academic

Level of study

first-cycle

Course offered in

Polish

Form of study

full-time

Requirements

elective

Number of hours

Lecture

15

Laboratory classes

0

Other

0

Tutorials

15

Projects/seminars

0

Number of credit points

3,00

Coordinators

dr inż. Paweł Królas

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Lecturers

Prerequisites

The prerequisites for the course include basic knowledge of management concepts, analytical thinking skills, and fundamental knowledge of mathematics and statistics.

Course objective

The aim of the course is to equip participants with theoretical foundations and practical skills necessary for identifying, analyzing, and effectively managing risk in various areas of business activity, enabling them to make informed strategic and operational decisions in a dynamic market environment.

Course-related learning outcomes

Knowledge:

Characterizes risk management models and their application in strategic, operational, and financial contexts [DSB1_W04].

Analyzes key ethical, social, and legal challenges related to risk management in an organization [DSB1_W06].

Describes methods for identifying, analyzing, and assessing risk, considering both qualitative and quantitative approaches [DSB1_W08].

Skills:

Selects appropriate information sources and analytical tools for risk assessment and management in an organization [DSB1_U01].

Analyzes systemic and non-technical aspects of risk management, including its impact on the operational and financial activities of a company [DSB1_U06].

Conducts a critical analysis of risk management processes, identifying potential areas for optimization and the implementation of new strategies [DSB1_U07].

Justifies the choice of specific risk management methods and evaluates the effectiveness of applied strategies [DSB1_U11].

Social competences:

Critically analyzes their own knowledge and skills in risk management, striving for continuous improvement [DSB1_K01].

Takes responsibility for fulfilling roles related to risk management in an organization, considering the consequences of decisions made [DSB1_K05].

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Lecture:

Students take two quizzes, each graded on a point-based system-50 points per quiz. The final grade is the sum of points from both quizzes. The first quiz takes place midway through the course, while the second is at the end. The passing threshold is a total of 50 points from both quizzes.

Exercises:

Students receive two formative assessments. The first assessment involves preparing a report on solving a selected business problem related to risk management, worth up to 50 points. The second assessment is a quiz, also worth up to 50 points. The passing threshold is a total of 50 points from all activities.

Programme content

The course covers comprehensive topics related to risk management in business, starting from fundamental definitions, methods for identifying threats, and risk analysis using qualitative and quantitative approaches, to assessing the impact of risk on organizational activities. The program emphasizes the application of risk management strategies at the strategic, operational, and financial levels and includes the use of insurance, contingency planning, and crisis management. Participants will also explore the role of information technology, legal regulations, and standards, as well as risk management in projects, supply chains, and within the context of organizational culture.

Course topics

Introduction to Risk Management
Risk Identification
Risk Analysis - Qualitative and Quantitative Approaches
Assessment of Risk Impact on Business Operations
Strategic Risk Management
Operational Risk Management
Financial Risk and Its Management
Insurance as a Risk Mitigation Tool
Contingency Planning and Crisis Management
The Role of Information Technology in Risk Management
Legal Regulations and Standards in Risk Management
Risk Management in Projects
Risk Management in Supply Chains
Organizational Culture and Risk Management
Innovative Approaches and Trends in Risk Management

Teaching methods

Lectures: Problem-based lecture, case study presentation

Exercises: Analysis of real-world data, practical group tasks, case study analysis

Bibliography

Basic:

Thompson, C., Hopkin, P. (2024). Podstawy zarządzania ryzykiem. Jak wdrażać efektywne systemy zarządzania ryzykiem w przedsiębiorstwie. Wydanie VI. Helion

Additional:

Bąk, P., Kapusta, M., & Sukiennik, M. (2017). Wybrane pryncypia zarządzania ryzykiem w przedsiębiorstwie. *Finanse, Rynki Finansowe, Ubezpieczenia*, 89, 363-368.

Breakdown of average student's workload

	Hours	ECTS
Total workload	75	3,00
Classes requiring direct contact with the teacher	32	1,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	43	2,00