



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Operational and Financial Risk Management

### Course

Field of study

Engineering Management

Area of study (specialization)

Managing the Enterprise of the Future

Level of study

Second-cycle studies

Form of study

full-time

Year/Semester

2/3

Profile of study

general academic

Course offered in

English

Requirements

elective

### Number of hours

Lecture

15

Laboratory classes

Tutorials

15

Projects/seminars

Other (e.g. online)

### Number of credit points

2

### Lecturers

Responsible for the course/lecturer:

Ph.D., D.Sc., Marek Szczepański, University  
Professor

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Responsible for the course/lecturer:

Ph.D., Tomasz Brzęczek

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### Prerequisites

1. Basic knowledge of finance and business management.
2. Knowledge of basic economic, financial and statistical categories, such as money, money price, interest rate, financial market institutions.
3. Awareness of the importance of the subject

### Course objective

The aim of the course is to develop skills in identifying, measuring and managing operational and financial risk.

### Course-related learning outcomes

#### Knowledge

The student defines legal norms, including business law, and their importance in the context of operational and financial risk management [P7S\_WG\_01].

The student explains methods of obtaining market data and their application in effective financial risk management [P7S\_WG\_07].

The student lists and explains ethical aspects of risk management, including the impact of ethical standards on decision-making in risk situations [P7S\_WK\_01].

#### Skills

The student independently proposes and implements effective procedures for operational and financial risk management [P7S\_UW\_04].

The student makes an in-depth theoretical evaluation of social and economic phenomena related to risk management, applying research methods [P7S\_UW\_05].

The student analyzes the economic and legal dependencies in the context of operational and financial risks and evaluates their impact on the business [P7S\_UW\_06].

The student analyzes the causes and course of processes related to operational and financial risks, formulating his/her own opinions and research hypotheses [P7S\_UW\_07].

The student effectively manages teams involved in the analysis and management of operational and financial risks, demonstrating responsible leadership and coordination [P7S\_UO\_01].

#### Social competences

The student identifies and evaluates causal relationships in risk management, ranking the significance of various operational and financial risks [P7S\_KK\_02].



The student prepares and manages projects related to operational and financial risk management, makes substantive contributions to their preparation [P7S\_KO\_01].

The student plans and manages business ventures, taking into account operational and financial risks [P7S\_KO\_03].

The student demonstrates an awareness of professionalism and professional ethics in risk management, respecting diversity of views and cultures [P7S\_KR\_01].

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Formative (partial) assessment from exercises:

- assessment of class activity (participation in discussions, student presentations)
- assessment of the project prepared in groups for the operational risk and financial risk management program in the selected enterprise.

Final assessment of exercises: test.

Lecture assessment:

Partial assessment: tasks solved as part of the course on the Moodle platform.

Final assessment of lectures: test.

### Programme content

1. Main types of operational risks.
2. Operational risk - areas of occurrence, classification.
3. Methods and instruments for operational risk management, its measurement and reduction.
4. Definition and classification of financial risk.
5. Main types of financial risk (credit risk, currency risk, interest rate risk, liquidity risk, risk related to the improper use of derivatives).
6. Methods and instruments for managing financial risk in an enterprise.

### Teaching methods

1. Informative lecture
2. Problem lecture
3. Auditorium exercises



4. Preparation of an enterprise risk management program (independently, in teams of 3-4 people) - project sentences.

5. Solving tasks transferred on the Moodle platform.

### Bibliography

#### Basic

1. Zarządzanie ryzykiem, K.Jajuga (red.), Wydawnictwo Naukowe PWN, Warszawa 2019.
2. Noga B., Noga M., Zarządzanie ryzykiem w procesie podejmowania decyzji ekonomicznych przez organizacje, CeDeWu, Warszawa2019.
3. P.Matkowski, Zarządzanie ryzykiem operacyjnym, WoltersKluwer Polska, Kraków 2006.
4. Staniec I., Zawila-Niedźwiedzki J., Zarządzanie ryzykiem operacyjnym,Wydawnictwo C.H.Beck, Warszawa 2008.

#### Additional

1. Bartkiewicz P., Szczepański M., Podstawy zarządzania finansami przedsiębiorstw. Instrumenty-metody-przykłady- zadania, Wydawnictwo Politechniki Poznańskiej, Poznan 2016.
2. Kaczmarek T.T., Zarządzanie ryzykiem w handlu międzynarodowym, Difin, Warszawa2012.

### Breakdown of average student's workload

	Hours	ECTS
Total workload	50	2,0
Classes requiring direct contact with the teacher	30	1,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests, project preparation) <sup>1</sup>	20	1,0

<sup>1</sup> delete or add other activities as appropriate