



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Operational and Financial Risk Management

### Course

Field of study

Engineering Management

Area of study (specialization)

Level of study

Second-cycle studies

Form of study

full-time

Year/Semester

1/3

Profile of study

general academic

Course offered in

Polish

Requirements

elective

### Number of hours

Lecture

15

Laboratory classes

Other (e.g. online)

0

Tutorials

15

Projects/seminars

### Number of credit points

2

### Lecturers

Responsible for the course/lecturer:

dr hab. Marek Szczepański, prof. PP

Faculty of Engineering Management

ul.J.Rychlewskiego 2

60-965 Poznań

e-mail: marek.szczepanski@put.poznan.pl

Responsible for the course/lecturer:

dr Tomasz Brzęczek

Faculty of Engineering Management

ul.J.Rychlewskiego 2

60-965 Poznań

e-mail: tomasz.brzeczek@put.poznan.pl

### 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 has in-depth knowledge of financial and operational risk in the enterprise and its impact on the organization (P7S\_WG\_01).

2. The student knows in-depth methods of obtaining information on sources of risk (P7S\_WG\_07).
3. The student has knowledge about the ethical aspects of the functioning of the enterprise related with operational and financial risk (P7S\_WK\_01).

#### Skills

1. The student is able to use theoretical knowledge to describe and analyze the causes and course of processes and social and economic phenomena) affecting the level of risk in the enterprise and is able to form their own opinions and select critically data and methods of analysis (P7S\_UW\_01).
2. The student has the ability to independently propose solutions to a specific management problem related to risk management and carry out the procedure to make decisions in this regard (P7S\_UW\_05).
3. The student is able to correctly interpret and explain social, cultural, political, legal, economic phenomena affecting operational and financial risk as well as mutual relations between social phenomena (P7S\_UW\_06).

#### Social competences

1. The student is able to see the cause-and-effect relationships in achieving the set goals related to risk management and rank the importance of alternative or competitive tasks (P7S\_KK\_02).
2. The student is able to make substantive contribution to the preparation of social projects in the aspect of risk management and to manage projects resulting from these projects (P7S\_KO\_01).
3. Student is able to plan and manage business ventures (P7S\_KO\_03).

### 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, Warszawa 2019.
3. P.Matkowski, Zarządzanie ryzykiem operacyjnym, WoltersKluwer Polska, Kraków 2006.
4. Staniec I., Zawila-Niedzwiedzki 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, Warszawa 2012.



### Breakdown of average student's workload

	Hours	ECTS
Total workload	60	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/exam, project preparation) <sup>1</sup>	30	1,0

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