



Syllabus Course Program



Riskology

Specialty

073 - Management

Educational program

International Business

Level of education

Bachelor's level

Semester

8

Institute

Institute of Education and Science in Economics,
Management and International Business

Department

Management (204)

Course type

Elective, Special (professional)

Language of instruction

English

Lecturers and course developers

**Shyian Nataliia**

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Doctor of Economic Sciences, Associate Professor of Management
Department, NTU «KhPI»

Authored and co-authored over 100 scientific publications.
Courses: Sustainable of Development Concepts, Risk Management,
Innovation Management, Business ethics and social responsibility
<https://web.kpi.kharkov.ua/mto/about/staff/shyian/>

General information

Summary

Formation of students' theoretical knowledge and practical skills to:
formation of risk management systems;
approaches to the development and implementation of risk management strategies and tactics;
disclosure of methods and techniques for managing risks;
assessing the effectiveness of risk management systems and methods for managing risks;
reviews of organizational and economic methods of risk management.

Course objectives and goals

obtaining theoretical knowledge and practical skills on the following issues:
modern concepts of risk management;
technologies and organization of risk management at the enterprise;
the essence and rules of building a risk management strategy;
International standards, their purpose and characteristics of their main provisions;
the essence, criteria and means of assessing the effectiveness of the risk management system;
approaches to their management.

Format of classes

Lectures, practices, self-study, individual tasks. Final control in the form of differentiated grading.

Competencies

GC03. Ability to abstract thinking, analysis, synthesis.

GC11. Ability to adapt and act in a new situation.

GC12. Ability to generate new ideas (creativity).

SC07. Ability to choose and use modern management tools.

SC12. The ability to analyze and structure the problems of the organization, to form reasonable solutions.

Learning outcomes

LO 04. To Demonstrate the skills of identifying problems and justifying managerial decisions.

LO 06. To Demonstrate the skills of searching, collecting and analyzing information, calculating indicators to substantiate management decisions.

LO 11. Demonstrate skills in situation analysis and communication in various areas of the organization.

LO 16. Demonstrate the skills of independent work, flexible thinking, openness to new knowledge, be critical and self-critical.

Student workload

The total volume of the course is 120 hours (4 ECTS credits): lectures - 20 hours, practice - 20 hours, self-study - 80 hours.

Course prerequisites

To successfully pass the course, you need to have knowledge and practical skills in the courses Fundamentals of management, Enterprise economics.

Features of the course, teaching and learning methods, and technologies

Lectures are conducted using the Teams corporate network software for online learning. In practical classes, a project approach to learning is used, attention is focused on the use of a system approach in management. Educational, methodical, materials are available to students y OneNote.

Program of the course

Topics of the lectures

Topic 1. Methodological aspects of forming a risk management system.

Lecture 1. The modern concept of risk management and its components. The concept of acceptable risk.

Lecture 2. The essence and structural structure of the risk management system at the enterprise.

Functions of the risk management system. Methodical approaches to building a comprehensive risk management system at the enterprise.

Topic 2. Risk management strategy, policy and tactics.

Lecture 3. The essence and rules of building a risk management strategy.

Lecture 4. Forms and contents of the risk management policy. Tactical risk management measures.

Topic 3. International standards in the process of risk management of economic entities.

Lecture 5. Characteristics of global risk management standards.

Lecture 6. Purpose and main provisions of the International Standard of risk management ISO 31000.

Purpose and main provisions of the International Standard of risk management FERMA.

Topic 4. Enterprise risk management system and ensuring its effectiveness.

Lecture 7. Risk management methods.

Lecture 8. Assessment of the effectiveness of the risk management system and risk management methods.

Topic 5. Organizational and economic methods of risk management.

Lecture 9. Organizational methods of risk management.

Lecture 10. Economic methods of risk management.

Topics of the workshops

Topic 1. Methodological aspects of forming a risk management system.

Workshop 1. Problem: Modern concepts of risk management, their selection, justification.

Workshop 2. Problem: Building a comprehensive risk management system at the enterprise.

Topic 2. Risk management strategy, policy and tactics.

Workshop 3. Problem: Approaches to building an enterprise's risk management strategy within the framework of the enterprise's activities.

Workshop 4. Problem: A set of tactical risk management measures within the enterprise.

Topic 3. International standards in the process of risk management of economic entities.

Workshop 5. Practical aspects of using global risk management standards.

Workshop 6. Practical aspects of using the provisions of the FERMA International Risk Management Standard.

Topic 4. Enterprise risk management system and ensuring its effectiveness.

Workshop 7. Basic approaches to risk management.

Workshop 8. Criteria and tools for assessing the effectiveness of the risk management system.

Topic 5. Organizational and economic methods of risk management.

Workshop 9. Problem: A set of organizational risk management methods within the enterprise.

Workshop 10. Problem: A set of economic methods of risk management within the enterprise.

Topics of the laboratory classes

Laboratory work within the discipline is not provided.

Self-study

The course involves the preparation of Essays, reports on key issues of the discipline. Students are also recommended additional materials (videos, articles) for independent analysis and study.

Course materials and recommended reading

Basic literature

1. Introduction to Risk Management. <https://extensionrme.org/Pubs/Introduction-to-Risk-Management-ENGLISH.pdf>
2. Kiseleva I. Risk management in Business: concept, types, evaluation criteria. Espacios. 2018. <https://www.revistaespacios.com/a18v39n27/a18v39n27p18.pdf>
3. Risk management techniques and Tools. https://www.wcoomd.org/-/media/wco/public/global/pdf/topics/enforcement-and-compliance/activities-and-programmes/risk-management-and-intelligence/volume-1_annex.pdf
4. Przetacznik S. The evolution of Risk management. Zeszyty Naukowe Małopolskiej Wyższej Szkoły Ekonomicznej w Tarnowie The Małopolska School of Economics in Tarnów Research Papers Collection ISSN 1506-2635, e-ISSN 2658-1817 2022, 53(1-2), 95-107.
5. Risk Management Framework 2024-2026. https://audit.scot/uploads/docs/um/risk_management_framework_24-26.pdf

Addition literature

1. Tyrkalo Yu. Application of Riskology Approaches for the Three-Continuum Model of Business Risk Management in the Value System of Sustainable Development. Path of Science: International Electronic Scientific Journal. 2022. Vol. 8(6). <https://pathofscience.org/index.php/ps/article/view/1218>
2. Belikov A.S., Matsuk Z., Todorov O. Safety Riskology. Ukrainian Journal of Civil Engineering and Architecture. 2024. DOI:10.30838/J.BPSACEA.2312.270224.17.1019
3. Lomothey R. Risk Management. The project Manager`s Perspective. Karlstad Business School. 2018. <https://www.diva-portal.org/smash/get/diva2:1472917/FULLTEXT02.pdf>
4. Artificial Intelligence Risk Management Framework (AI RMF 1.0). National Institute of Standards and Technology. 2023. <https://nvlpubs.nist.gov/nistpubs/ai/nist.ai.100-1.pdf>
5. Comprehensive Risk Management. <https://www.bmz.de/resource/blob/23700/materialie400-risk-management.pdf>

Assessment and grading

Criteria for assessment of student performance, and the final score structure

100% of the final grade consists of assessment results in the form of Test (40%) and current assessment (60%). Test consists of 40 theoretical questions. Current assessment: 2 current calculation tasks and a 1 final control task (20% per each).

Grading scale

Total points	National	ECTS
90-100	Excellent	A
82-89	Good	B
75-81	Good	C
64-74	Satisfactory	D
60-63	Satisfactory	E
35-59	Unsatisfactory (requires additional learning)	FX
1-34	Unsatisfactory (requires repetition of the course)	F

Norms of academic integrity and course policy

The student must adhere to the Code of Ethics of Academic Relations and Integrity of NTU "KhPI": to demonstrate discipline, good manners, kindness, honesty, and responsibility. Conflict situations should be openly discussed in academic groups with a lecturer, and if it is impossible to resolve the conflict, they should be brought to the attention of the Institute's management.

Regulatory and legal documents related to the implementation of the principles of academic integrity at NTU "KhPI" are available on the website:

<https://blogs.kpi.kharkov.ua/v2/nv/akredytatsiya/akademichna-dobrochesnist>

Approval

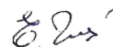
Approved by

Date, signature



Head of the department
Olena PROHORENKO

Date, signature



Guarantor of the educational program
Olena CHAIKOVA