



Syllabus Course Program



Management of innovations

Specialty

073 - Management

Institute

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

Educational program

International Business
Business administration (In English)

Department

Management (204)

Level of education

Bachelor's level

Course type

Elective, Special (professional)

Semester

7

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:
methodical approaches to the development and implementation of innovation policy at the enterprise;
formation of the appropriate organizational structure and management structure, personnel
management system;
evaluation of innovation effectiveness.

Course objectives and goals

obtaining theoretical knowledge and practical skills on the following issues:
formation, development, implementation of innovative management elements in the company;
justification of the feasibility of using innovative projects within the company's activities in accordance
with its development strategy;
mastering the methods of evaluating the effectiveness of the implementation of innovative projects.

Format of classes

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

Competencies

GC11. The ability to adapt to a new situation and take an action.

SC02. The ability to analyze the results of an organization's activity, to compare them with the factors of the external and internal environment.

SC03. The ability to identify prospects for organizational development.

SC08. The ability to plan the organization activity and to manage time.

Learning outcomes

LO 03. To demonstrate knowledge of theories, methods and functions of management, modern concepts of leadership.

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

LO 09. To demonstrate the skills of interaction, leadership, teamwork.

LO 10. Have the skills to justify effective tools for motivating the organization's personnel.

Student workload

The total volume of the course is 120 hours (4 ECTS credits): lectures - 32 hours, practice - 32 hours, self-study - 72 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. The essence of innovative development and the basic concepts of innovative management

Lecture 1. The essence and content of the concepts of "innovation", innovation management.

Lecture 2. Functions of innovation management. Characteristic features of innovative development.

Innovation classification system. Types of innovative activities.

Topic 2. Innovative activity and innovative policy of the enterprise as objects of innovative management

Lecture 3. Characteristics of the innovation process. The structure of the innovation process. Innovation diffusion models.

Lecture 4. Innovative policy of the enterprise: content, elements, principles. Management of innovations. Innovation department or team.

Topic 3. State regulation and support of innovative activity

Lecture 5. Purpose and principles of regulation of state innovation policy. Types of state innovation policy. Methods of state regulation of innovation policy.

Lecture 6. Foreign experience of supporting innovative development. Domestic experience of supporting innovative activities. Sources of state financing of innovative activities.

Topic 4. Management of innovative development of the enterprise, its investment support. Innovative strategy

Lecture 7. The concept of managing innovative development in the company. Types of innovative resources in the company. The structure of the organizational and economic mechanism of management of innovative development of the enterprise.

Lecture 8. Investment support for the innovative development of the enterprise: concepts, goals, objectives, types and sources of financing. Management of investment support for innovative activities of the enterprise

Strategies of innovative development of the company.

Topic 5. Risk management in innovative activities

Lecture 9. The essence and types of risks in innovative activity. Integration of risk management into the general innovation management system.

Lecture 10. Methods of identifying the risks of innovative activity. Risk management in innovative activities.

Topic 6. Management of an innovative project

Lecture 11. Concepts, features and classification of innovative projects. Innovative project as an object of financing. Documentary support of the innovative project. Examination of innovative projects. Choosing the best option for an innovative project.

Lecture 12. Organizational structures of project management: Agile, Scram, WaterFall.

Topic 7. The system of stimulating innovative activity at the enterprise

Lecture 13. The essence of the motivation of innovative activity at the enterprise. Methods of stimulating the creative activity of the company's personnel.

Lecture 14. Innovative culture in the organization: concepts, features and relevance. Management style and formation of innovative culture in the organization.

Topic 8. Evaluation of the effectiveness of the innovative activity of the enterprise

Lecture 15. Effect and efficiency of innovative activity. Classification of innovation performance evaluation indicators. Analysis of innovative activity of the enterprise.

Lecture 16. Assessment of the social effectiveness of innovative activity. Factors affecting the efficiency of innovative activity of the enterprise.

Topics of the workshops

Topic 1. The essence of innovative development and the basic concepts of innovative management

Concept of innovative development. The main signs of innovative development. The importance of innovation for economic growth.

Topic 2. Innovative activity and innovative policy of the enterprise as objects of innovative management

Problem: The role of innovative activity in the competitiveness of the enterprise. The importance of innovation for economic growth.

Topic 3. State regulation and support of innovative activity

Interaction of the state with the private sector in the field of innovation. Innovative infrastructure: technology parks, business incubators, innovation clusters. Support for startups and technological innovations abroad.

Topic 4. Management of innovative development of the enterprise, its investment support. Innovative strategy

Analysis of company resources. Innovative potential of the enterprise. Sources of innovation financing

Topic 5. Risk management in innovative activities

Practical component: SWOT analysis and its use for risk identification. Methods of expert assessment and "brainstorming". Compilation of the register of risks.

Topic 6. Management of an innovative project

Time management in the implementation of an innovative project. Resource management in an innovative project. Tools and technologies for managing innovative projects. Management of communications in an innovative project. Control and monitoring of the implementation of the innovative project.

Topic 7. The system of stimulating innovative activity at the enterprise

Practical examples of the development of systems for stimulating innovative activity at the enterprise: programs for employee participation in profits; introduction of internal contests for innovative ideas; development of special training and internship programs; development of individual motivational programs.

Innovative culture in the organization: concepts, features and relevance. Management style and formation of innovative culture in the organization.

Topic 8. Evaluation of the effectiveness of the innovative activity of the enterprise. A practical example of evaluating the effectiveness of innovations at the enterprise.

A practical example of evaluating the effectiveness of innovations in the company.

Effect and efficiency of innovative activity. Classification of innovation performance evaluation indicators. Analysis of innovative activity of the enterprise. A practical example of evaluating the effectiveness of innovations in the company

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. Trott P. Innovation Management and New Product Development. URL: [https://ftp.idu.ac.id/wp-content/uploads/ebook/ip/BUKU%20MANAJEMEN%20INOVASI/Innovation%20Management%20and%20New%20Product%20Development%20\(%20PDFDrive%20\).pdf](https://ftp.idu.ac.id/wp-content/uploads/ebook/ip/BUKU%20MANAJEMEN%20INOVASI/Innovation%20Management%20and%20New%20Product%20Development%20(%20PDFDrive%20).pdf)
2. Egar R. The Future of Innovation Management: Five Key Steps for Future Success. URL: <https://innovationmanagement.se/wp-content/uploads/2011/10/The-Future-of-Innovation-Management-Egar.pdf>
3. Dyer J.H., Gregersen H.B., Christensen C.M. The Innovator's DNA. URL: <https://www.innosight.com/wp-content/uploads/2009/12/The-Innovators-DNA.pdf>
4. Drucker P.F. Innovation and Entrepreneurship. URL: http://www.untag-smd.ac.id/files/Perpustakaan_Digital_1/ENTREPRENEURSHIP%20Innovation%20and%20entrepreneurs hip.PDF
5. Shyian D., Shyian N., Sevriukova Y., Rudenko V. Impact of digital technologies on the level and quality of life of the population in Ukraine. Journal of Innovations and Sustainability. Vol. 8 No. 3 (2024). DOI: <https://doi.org/10.51599/is.2024.08.03.06>. <https://is-journal.com/is/article/view/306>
6. Islam N.J., Basar M.Sh. A comparative study on Innovation management processes in the context of developing and developed countries. Faculty of Education and Business Studies. 2022.64 p. <https://www.diva-portal.org/smash/get/diva2:1632063/FULLTEXT01.pdf>
7. Munna A.S., Shaikh M., Mazumdar A. Management of Innovation: Theories and Practice. Embracing Business Sustainability Through Innovation and Creativity in the Service Sector. 2023. 329 p. DOI: 10.4018/978-1-6684-6732-9.

Addition literature

1. Christensen C.M. The Innovator's Dilemma: The Revolutionary Bool that Will Change the Way You Do Business. URL: <https://www.hbs.edu/faculty/Pages/item.aspx?num=46>.
2. Laloux F. Reinventing Organization: A Guide to Creating Organizations Inspired by the Next Stage of Human Consciousness. URL: <https://www.socialskills4you.com/wp-content/Reinventingorganization.pdf>
3. Two documents that tell you all you need to know about innovation. 2021. URL: <http://innovateonpurpose.blogspot.com/2021/01/two-documents-that-tell-you-all-you.html>
4. A New Model to Spark Innovation Inside Big Companies. 2021. URL: <https://hbr.org/2021/05/a-new-model-to-spark-innovation-inside-big-companies>.
5. Monumental Mistakes Most Organizations Make with Bottom-Up Innovation. URL: <https://ideawake.com/3-monumental-mistakes-most-organizations-make-with-bottom-up-innovation/>
6. Jabbari M.M. The important of Innovation and its Crucial Role in Growth, Survival and Success of Organizations. Procedia Technology. 2012. № 1. P. 535-538.
7. Tiberius V., Schwarzer H., Roig-Dobon. Radical innovations: Between established knowledge and future research opportunities. Journal of Innovation & Knowledge. 2021. № 6. 3.145-153.

Assessment and grading

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

100 % Final assessment as a result of Exam (30 %) and Continuous assessment (70 %).

Exam 30 %

Continuous assessment (70 %)

32 % practical assessment (participation in workshop is 2 points, 16 workshops * 2 points = 32 points or 32 %);

38% completion of an individual task and presentation of the results.

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

Olena PROKHORENKO