



## Syllabus Course Program



# Innovation management

**Specialty**

073 - Management

**Educational program**

Business Administration

**Level of education**

Bachelor's level

**Semester**

5

**Institute**

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

**Department**

Management (204)

**Course type**

Special (professional), Mandatory

**Language of instruction**

English

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## Lecturers and course developers

**Shyian Nataliia**

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

G 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, consultation. Final control in the form of an exam.

### Competencies

GC03. The ability for abstract thinking, analysis, synthesis.  
GC04. The ability to apply knowledge in practical situations.

GC05. Knowledge and understanding of the subject area and understanding of the professional activity.  
GC09. The ability to learn and to master modern knowledge.  
GC11. The ability to adapt to a new situation and take an action.  
GC12. The ability to generate new ideas (creativity).  
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 04. To demonstrate the ability to identify problems and justify managerial decisions.  
LO 05. To describe the content of the functional areas of an organization.  
LO 16. To demonstrate skills of independent work, flexible thinking, openness to new knowledge, to be critical and self-critical.  
LO 17. To conduct research individually and/or in a group under the supervision of a leader.

### **Student workload**

The total volume of the course is 150 hours (5 ECTS credits): lectures - 32 hours, practice - 32 hours, self-study - 86 hours.

### **Course prerequisites**

To successfully complete the course, you must have knowledge and practical skills from the following disciplines: "Fundamentals of Management", "Enterprise Economics", "Fundamentals of Entrepreneurship"

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

Interactive lectures with presentations, discussions, practical cases, individual tasks. Study materials are available to students in OneNote.

## **Program of the course**

### **Topics of the lectures**

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

The essence and content of innovative management. Functions of innovative management. Classification of innovations.

#### **Topic 2. Innovative activity as an object of innovative management**

Characteristics of the innovation process. The structure of the innovation process. Innovation diffusion models. Management of innovations. Innovation department or team.

#### **Topic 3. State regulation and support of innovative activity**

Purpose and principles of innovation policy regulation. Methods of state regulation of innovation policy. System of state regulation of innovation policy.

#### **Topic 4. Types of organizational management structures and methods of organizing the provision of innovative processes at the enterprise**

Types of R&D organizational structures, features of their construction at enterprises of various forms of ownership and management. Methods of organization of the innovation process at the enterprise.

#### **Topic 5. Management of innovative development of the enterprise. Innovative strategy**

The concept of managing innovative development at the enterprise. Types of innovative resources at the enterprise. The structure of the organizational and economic mechanism of management of innovative development of the enterprise.

#### **Topic 6. Management of an innovative project**

Planning of an innovative project. Organization of innovation project management.

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

The essence of the motivation of innovative activity at the enterprise. Methods of stimulating the creative activity of the company's personnel. Management style and formation of innovative culture in the organization.

#### **Topic 8. Evaluation of the effectiveness of innovations**

Types of effectiveness of innovative projects. Methodology for assessing the economic efficiency of the innovative activity of the enterprise.

### **Topics of the workshops**

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

Classification, examples of innovations by spheres of activity.

#### **Topic 2. Innovative activity as an object of innovative management**

Innovation diffusion models. Management of innovations. Innovation department or team.

#### **Topic 3. State regulation and support of innovative activity**

Purpose and principles of innovation policy regulation. Methods of state regulation of innovation policy. System of state regulation of innovation policy.

#### **Topic 4. Types of organizational management structures and methods of organizing the provision of innovative processes at the enterprise**

Consideration of practical examples of R&D organization within companies. Conditions for concluding contracts for the implementation of R&D on the terms of outsourcing.

#### **Topic 5. Management of innovative development of the enterprise**

Innovative strategy. The concept of managing innovative development at the enterprise. Types of innovative resources at the enterprise.

#### **Topic 6. Management of an innovative project**

Analysis of company resources. Personnel management system. Fundraising.

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

Practical examples of developing systems for stimulating innovative activity at the enterprise.

#### **Topic 8. Evaluation of the effectiveness of innovations**

A practical example of evaluating the effectiveness of innovations at 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. 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. Eagar 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\\_Eagar.pdf](https://innovationmanagement.se/wp-content/uploads/2011/10/The_Future_of_Innovation_Management_Eagar.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. Шиян Н.І. Інноваційний розвиток підприємства: навч. посібник. Харк. нац. аграр. ун-т ім. В.В. Докучаєва. Харків, 2019.
5. Drucker P.F. Innovation and Entrepreneurship. URL: [http://www.untag-smd.ac.id/files/Perpustakaan\\_Digital\\_1/ENTREPRENEURSHIP%20Innovation%20and%20entrepreneurs hip.PDF](http://www.untag-smd.ac.id/files/Perpustakaan_Digital_1/ENTREPRENEURSHIP%20Innovation%20and%20entrepreneurs hip.PDF)

## Addition literature

1. Christensen C.M. The Innovator's Dilemma: The Revolutionary Tool 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 (40 %) and Continuous assessment (60 %).

Exam 40 %

Continuous assessment (60 %)

40 % practical assessment;  
15 % mid-term control  
5 % other activities.

### 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: <http://blogs.kpi.kharkov.ua/v2/nv/akademichna-dobrochesnist/>

## Approval

Approved by

Date, signature

Head of the department  
Olena PROHORENKO

Date, signature

Guarantor of the educational  
program  
Olena PROHORENKO

