



Syllabus

Innovative Technologies in Management

Master's degree in higher education

Speciality 073 "Management"

Educational and scientific program – “International Management”

Year of study: II, Sem: III

Number of credits: 5 Language of instruction: English

Course leader

Name, surname

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Contact information

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Description of the course

The discipline "Innovative Technologies in Management" is aimed at developing students' theoretical knowledge and practical skills in the use of innovative technologies in management, mastering the mechanisms of innovative business process management, researching foreign practice of using innovative technologies in management for adaptive use in Ukraine.

Structure of the course

Topic	Learning outcomes	Control
1. Modern management technologies	Know the content and practical importance of management technology, the basic requirements for effective management technology, elements and types of modern technologies in management	Surveys, tests
2. Key management innovations	Know the main types of management innovations: management by objectives (MBO); balanced scorecard system (BSC); enterprise resource planning (ERP); customer relationship management (CRM); effective time management (TBM)	Surveys, tests
3. Information systems and technologies in business management	Know the features of the use of automated information systems and technologies, as well as the main types of corporate information systems used in the management of enterprises	Surveys, tests, tasks
4. Innovative management technologies in the process	Know and analyse innovative management technologies in the process of improving product	Surveys, tests, cases

of improving product quality at the enterprise	quality at the enterprise: quality management based on TQM; Six Sigma defect reduction system; 5S workplace organisation system; organisation of general management of auxiliary services (TSM); lean management system (LM)	
5. Benchmarking in the system of managing competitive advantages of enterprises	Understand the importance of benchmarking in the enterprise management system, know its main types and stages	Surveys, tests, cases
6. Modern technologies in enterprise resource management	Understand the importance of an ERP system for production management, its main functions and examples of application	Surveys, tests, cases
7. Reengineering and business process engineering	Understand the significance and know the stages of business process reengineering, prospects and threats of its application	Surveys, tests
8. Innovations in human resources management	Understand modern technologies of search, formation and recruitment of personnel, technologies of training and development of personnel, technologies of motivation and dismissal of personnel	Surveys, tests, cases
9. Innovative technologies for supply chain management and planning	Understand the components of the supply chain, the benefits of using CPFR technology, the application of the SCOR model in supply chains and blockchain technology	Surveys, tests, cases
10. Modern technologies in financial management at the enterprise	Understand modern technologies of financial management, asset and capital management of the enterprise, know the organisation of information technologies in the management of the financial and credit system of the enterprise, features of financial controlling	Surveys, tests, cases
11. Scientific and technical cooperation: competition and cooperation in the field of modern innovative technologies	Understand the relationship between innovation, research and production, know the forms of technological cooperation	Surveys, tests

Literature

1. Duczmal, M., Nestorenko, T. (2021). Modern Management: Theories, Concepts, Implementation (Monograph). Opole: The Academy of Management and Administration in Opole. 394 p. <https://www.wszia.opole.pl/wp-content/uploads/2020/05/7.pdf>

2. Lappalainen, L., Aleem, M., Sandberg, B. (2023). How to manage open innovation projects? An integrative framework. *Project Leadership and Society*, 4, 100095. <https://doi.org/10.1016/j.plas.2023.100095>

3. Padilla, J., Zartha, J.W., Ocampo-Lopez, C., Ramírez Carmona, M.E. (2023). Open Innovation: A Technology Transfer Alternative from Universities. A Systematic Literature Review. *Journal of Open Innovation: Technology, Market, and Complexity*. <https://doi.org/10.1016/j.oiitmc.2023.100090>

4. Portuguese-Castro, M. (2023). Exploring the Potential of Open Innovation for Co-Creation in Entrepreneurship: A Systematic Literature Review. *Administrative Sciences*, 13(9), 198. <https://doi.org/10.3390/admsci13090198>

5. Radziwon, A., Chesbrough, H., West, J., Vanhaverbeke, W. (2023). The Future of Open Innovation. *The Oxford Handbook of Open Innovation*. Oxford University Press.

6. Resler, M. (2020). Innovative technologies in management. *MEST Journal*, 8(2), 151-156. <https://doi.org/10.12709/mest.08.08.02.17>

7. Srisathan, W. A., Ketkaew, C., Naruetharadhol, P. (2023). Assessing the effectiveness of open innovation implementation strategies in the promotion of ambidextrous innovation in Thai small and medium-sized enterprises. *Journal of Innovation & Knowledge*, 8(4), 100418. <https://doi.org/10.1016/j.jik.2023.100418>

8. Zatonatskiy, D., Dluhopolska, T., Rozhko, O., Stechyshyn, T., Metlushko, O. (2019). Modern Information Technologies in HRM: Concept of Personnel Security. 2019 IEEE International Conference on Advanced Trends in Information Theory, ATIT 2019 Proceedings, 313-316. <https://doi.org/10.1109/ATIT.2019.9030433>

9. Гайкова Т.В., Загорянський В.Г., Леонтович А.О. (2023). Впровадження цифрових технологій в управління ланцюгами постачань. *Центральноукраїнський науковий вісник. Технічні науки*, 7(38), 222-228.

10. Горова К., Длугопольський О., Длугопольська Т. (2019). Entering in the global manufacturing outsourcing market and innovative development of the Ukrainian industrial enterprises. *Economy and Sociology: Theoretical and Scientific Journal*, Category "B", 2, 20-31. Retrieved from <https://ideas.repec.org/a/nos/ycriat/352.html>

11. Длугопольський О., Длугопольська Т. (2023). Бібліометричний аналіз дослідження застосування інноваційних технологій в управлінні. Ціннісні орієнтири в сучасному світі: теоретичний аналіз та практичний досвід: Збірник тез V Міжнародної науково-практичної конференції (11-12 травня 2023 р.). Тернопіль, 2023, 110-112.

12. Наконечна Т.В., Гринів Н.Т. (2021). Застосування новітніх технологій у логістичній діяльності підприємств. *Вчені записки ТНУ імені В. І. Вернадського. Серія: Економіка і управління*, 32(71), 16-21.

13. Пурій Г.М. (2019). Інформаційні системи і технології в управлінні діяльністю підприємства. *Ефективна економіка*, 6.

Evaluation policy

- **Deadline and retake policy:** Modules are retaken with the permission of the dean's office if there are good reasons (for example, sick leave).
- **Academic Integrity Policy:** write-offs during control work are prohibited (including using mobile devices).
- **Visiting policy:** Attending classes is a mandatory component of the assessment. For objective reasons (for example, illness, international internship, and other reasons), training can take place online with the permission of the university administration.

Evaluation

The final grade for the course is calculated as follows:

Credit module 1	Credit module 2	Credit module 3
30%	40%	30%
1. Oral questioning (testing) in class (1-4 topics) -5 points per topic - max. 20 points 2. Written test - max. 80 points	1. Oral questioning (testing) in class (topics 5-11) - 5 points per topic - max. 35 points 2. Written test - max. 65 points	1. Preparation of a complex individual task - max. 40 points. 2. Defense of a complex individual task - max. 40 points. 3. Participation in trainings - max. 20 points

Student evaluation scale:

ECTS	Scores	Content
A	90-100	excellent
B	85-89	good
C	75-84	good
D	65-74	satisfactory
E	60-64	enough
FX	35-59	unsatisfactory with the possibility of reassembly
F	1-34	unsatisfactory with a mandatory repeat course