

**NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL
SCIENCES OF UKRAINE**
Department of Production and Investment Management

“CONFIRM”
Faculty of Agrarian Management

“ 15” June 2026 p.

PROGRAM OF THE COURSE

OPERATIONS MANAGEMENT

Field of knowledge 07 “Management and Administration”
Specialty 073 “Management”
Academic Program “Management”
Faculty agrarian management
Dvelopers: As. Professor K.A. Alekseieva, Production and Investment
Management Department, Doctor of Economic Sciences

Kyiv - 2026

Description of the course “Operations Management”. The course “Operations Management ” is core. It is aimed at providing students with comprehensive theoretical knowledge and practical skills in the management of operational processes within modern enterprises. The course focuses on the principles, methods, and tools used to design, plan, organize, control, and improve production and processing operations in order to enhance organizational efficiency and competitiveness. The course covers key aspects of operations strategy, process improvement, lean management, quality control systems, production planning and scheduling, as well as contemporary approaches to sustainable and digital operations management. Special attention is given to the application of analytical methods and decision-making tools that support operational excellence and long-term organizational development.

Field of Study, Specialty, Academic program, Academic degree		
Academic degree	Bachelor	
Specialty	073 “Management”	
Academic Program	Management	
Characteristics of the course		
Type	Core	
Total number of hours	120	
Number of ECTS credits	<u>4</u>	
Number of content modules	<u>2</u>	
Term paper	+	
Form of assessment	Exam	
Indicators of the course for full-time and part-time forms of study		
	Form of study	
	Full-time	Part-time
Year of study	3	-
Semester	6	-
Lecture classes	30 hours.	-.
Seminars	30 hours	-
Laboratory	-	-
Self-study	60 hours.	-
Hours per week (full-time program)	4 hours	-

1. Purpose, competencies and program outcomes of the course

The purpose of the course is to master a set of knowledge about production and its organization, operating systems and their operation; formation in the future managers' ability to develop operational strategy, create and use industry operating systems as a basis for ensuring the achievement of the organization's mission.

List of academic disciplines that precede the study of "Operations analysis"

Introduction to the specialty, Management, Starting your own business

Acquisition of competencies:

integrated competency (IC): The ability to solve complex specialized tasks and practical problems characterized by complexity and uncertainty of conditions, in the field of management or in the process of learning that involves the application of theories and methods of social and behavioral sciences.

General competencies (GC):

GC 4 Ability to apply knowledge in practical situations.

GC 5 Knowledge and understanding of the subject area and understanding professional activity.

Special (professional) competencies (SC):

SC 4 The ability to determine the functional areas of the organization and connections between them.

SC 5 Ability to manage the organization and its divisions through the implementation of management functions

SC 12 Ability to analyze and structure problems organizations, form informed decisions.

Program learning outcomes (PLO):

PLO 3. Demonstrate knowledge of management theories, methods and functions, and modern leadership concepts.

PLO 4 Demonstrate skills in identifying problems and substantiating managerial solutions

PLO 8. Apply management methods to ensure the effectiveness of activities of organization

2. Program and structure of the course

Names of content modules and topics	Number of hours													
	Full-time form							Part-time form						
	weeks	Total class room	including					total	including					
			l	p	lab	ind	s/s.		l	p	lab	ind	s/s	
MODULE 1 OPERATIONAL SYSTEM OF THE ORGANIZATION AND OPERATIONAL MANAGEMENT														
Topic 1. Operational management as a kind of functional management	1	4	2	2			6							
Topic 2. Operational strategy	2	4	2	2			6							
Topic 3. Operational system of the organization: structural and process characteristics	3	4	2	2			6							
Topic 4. Production process	4,5	8	4	4			6							
Topic 5. Organization of basic production. Types of production	5,6	8	4	4			6							
Total for module 1	58		14	14			30							
MODULE 2 CURRENT OPERATIONAL MANAGEMENT SYSTEMS														
Topic 6. Production strategy and competitiveness of the enterprise	7,8	8	4	4			6							
Topic 7. Planning and projecting of the operational process at the enterprise.	9,10	8	4	4			6							
Topic 8. Management of material resources	11,12	8	4	4			6							
Topic 9. Product quality management	13,14	4	2	2			6							
Topic 10. Operational performance management	15	4	2	2			6							
Total for module 2	62		16	16			30							
Total hours	120		30	30			30							
Term paper	+													
Total hours	120		30	30			60							

3. Lecture topics

N	Topics	Hours
1	Operational management as a kind of functional management	2
2	Operational strategy	2
3	Operational system of the organization: structural and process characteristics	2
4	Production process	4
5	Organization of basic production. Types of production	4
6	Production strategy and competitiveness of the enterprise	4
7	Planning and projecting of the operational process at the enterprise.	4
8	Management of material resources	4
9	Product quality management	2
10	Operational performance management	2
Total		30

4. Topics of practical classes

N	Topics	Hours
1	Operational management as a kind of functional management	2
2	Operational strategy	2
3	Operational system of the organization: structural and process characteristics	2
4	Production process	4
5	Organization of basic production. Types of production	4
6	Production strategy and competitiveness of the enterprise	4
7	Planning and projecting of the operational process at the enterprise.	4
8	Management of material resources	4
9	Product quality management	2
10	Operational performance management	2
Total		30

5. Self-study work topics

N	Topics	Hours
1	Operational management as a kind of functional management	6
2	Operational strategy	6
3	Operational system of the organization: structural and process characteristics	6
4	Production process	6
5	Organization of basic production. Types of production	6
6	Production strategy and competitiveness of the enterprise	6
7	Planning and projecting of the operational process at the enterprise.	6
8	Management of material resources	6
9	Product quality management	6
10	Operational performance management	6
Total		60

6. Methods and diagnostic tools for learning outcomes

- oral or written survey;
- interview;
- testing;
- defense of practical works, projects;

7. Methods of teaching:

- problem-based learning method;
- practice-oriented learning method;
- case method;
- project-based learning method;
- research-based learning method;
- discussion-based learning method;
- teamwork, brainstorming method
- gamified learning method.

8. Assessment of learning outcomes.

The knowledge of a higher education applicant is assessed on a 100-point scale and is converted into a national assessment in accordance with the current "Regulations on Examinations and Tests at the NUBiP of Ukraine"

8.1. Distribution of grades by types of educational activities

Type of educational activity	Learning outcomes	Assessment
MODULE 1 OPERATIONAL SYSTEM OF THE ORGANIZATION AND OPERATIONAL MANAGEMENT		
Lecture 1	-	-
Practical work 1.	PLO 3. Demonstrate knowledge of management theories, methods and functions, and modern leadership concepts.	8
Lecture 2	-	-
Practical work 2.	PLO 3. Demonstrate knowledge of management theories, methods and functions, and modern leadership concepts.	8
Lecture 3	-	-
Practical work 3.	PLO 4 Demonstrate skills in identifying problems and substantiating managerial ones solutions	8
Lecture 4		-
Practical work 4.	PLO 8. Apply management methods to ensure the effectiveness of activities of organization	8
Lecture 5		-
Practical work 5.	PLO 4 Demonstrate skills in identifying problems and substantiating managerial ones solutions	8
Self-study work 1. OPERATIONAL SYSTEM OF THE ORGANIZATION AND OPERATIONAL MANAGEMENT: writing of an abstract Execution of tests 1,2,3,4 in Elearn	PLO 3. Demonstrate knowledge of management theories, methods and functions, and modern leadership concepts.	30
Module work 1.		30
Total for module 1		100
MODULE 2 CURRENT OPERATIONAL MANAGEMENT SYSTEMS		
Lecture 6		

Practical work 6.	PLO 4 Demonstrate skills in identifying problems and substantiating managerial ones solutions	8
Lecture 7		
Practical work 7.	PLO 8. Apply management methods to ensure the effectiveness of activities of organization	8
Lecture 8		
Practical work 8.	PLO 3. Demonstrate knowledge of management theories, methods and functions, and modern leadership concepts.	8
Lecture 9		
Practical work 9.	PLO 4 Demonstrate skills in identifying problems and substantiating managerial ones solutions	8
Lecture 10		
Practical work 10.	PLO 5 Describe the content of the functional areas of the organization	8
Self-study work 2. CURRENT OPERATIONAL MANAGEMENT SYSTEMS: preparing of a presentation on one of the offered topics Execution of tests 6,7,8,9	PLO 3. Demonstrate knowledge of management theories, methods and functions, and modern leadership concepts.	30
Module work 2.		30
Total for module 2		100
Educational work		(M1 + M2)/2*0,7 ≤ 70
Exam		30
Total for the course		(Educational work + exam) ≤ 100

8.2. Scale for assessing of knowledge of a higher education applicant

Higher education applicant rating, grades	National grading system (exams/credits)
90-100	Excellent
74-89	Good
60-73	Satisfactory
0-59	Unsatisfactory

8.3. Assessment Policy

Deadline and resubmission policy	Works submitted after the deadline without good reason will be given a lower grade. Modules can be retaken with the permission of the lecturer if there are good reasons (for example, sick leave).
Academic Integrity Policy	Cheating during tests and exams is prohibited (including using mobile devices). Term papers and essays must have correct text references to the literature used
Attendance Policy	Attendance at classes is mandatory. For objective reasons (e.g. illness, international internship), studies may be conducted individually (online upon agreement with the dean of the faculty).

9. Educational and methodological support

- <https://elearn.nubip.edu.ua/course/view.php?id=3815>
- Lecture notes, presentations

- Shynkaruk L., Alekseiieva K., Vlasenko T. Operational management. NULES of Ukraine. 2021. 244 p. URL: https://nubip.edu.ua/sites/default/files/u317/2021_nmp_om_shin_alek_vlas.pdf
- Alekseiieva K.A. Methodical instructions for preparing term papers in «Operational Management» (mandatory component of Educational Program 073 «Management») for students of the specialty 073 «Management» educational degree «Bachelor». Kyiv: NULES of Ukraine, 2023. 48 p. URL: https://nubip.edu.ua/sites/default/files/u317/2023_mi_opman_alekseiieva.pdf

10. Recommended sources of information

1. Алексеева К.А., Власенко Т.О. Впровадження інноваційних підходів в операційний менеджмент сільськогосподарських підприємств: інтеграція Lean Management та контролінгу. Актуальні проблеми економіки № 5. 2026. URL: https://eco-science.net/wp-content/uploads/2026/05/5.26_topic_Kateryna-Alekseiieva-Tetiana-Vlasenko-25-32.pdf
2. Алексеева К. А., Остапчук А. Д. КОНЦЕПТУАЛЬНА МОДЕЛЬ ЕКОІННОВАЦІЙ ДЛЯ МАЛИХ ТА СЕРЕДНІХ СІЛЬСЬКОГОСПОДАРСЬКИХ ВИРОБНИКІВ В РАМКАХ ДПП В СУЧАСНИХ УМОВАХ В УКРАЇНІ. Економічна парадигма, (4(108), 2026. С. 212–219. <https://doi.org/10.25313/3083-7782-2026-4-28>
3. Деліні М., Алексеева К. ЗАСТОСУВАННЯ ІНТЕГРОВАНОГО ПІДХОДУ ДО РИЗИК-МЕНЕДЖМЕНТУ ВИРОБНИЧИХ ПІДПРИЄМСТВ В СУЧАСНИХ УМОВАХ В УКРАЇНІ. Актуальні проблеми економіки № 10. 2025. С. 17-23. URL: https://eco-science.net/wp-content/uploads/2025/10/10.25_topic_Maryna-Dielini-Kateryna-Alekseiieva-17-23.pdf
4. Національна бібліотека України імені В.І Вернадського URL: <http://www.nbuv.gov.ua>
5. Офіційний Веб-сайт Міністерства економіки, довкілля та сільського господарства. URL: <http://www.me.gov.ua/?lang=uk-UA>
6. Сайт Державної служби статистики України. URL: <http://www.ukrstat.gov.ua>
7. Alekseiieva, K., Gupta, S.K., Ostapchuk, A.D., Kovtun, O., Kostyuk, O. (2025). Implementation of Lean Method in Management of the Enterprises of the Agrarian Sector in the Context of Digitalization. In: Alareeni, B. (eds) The Digital Edge: Transforming Business Systems for Strategic Success. Studies in Systems, Decision and Control, vol 604. Springer, Cham. https://doi.org/10.1007/978-3-031-95280-7_41 https://link.springer.com/chapter/10.1007/978-3-031-95280-7_41
8. Shynkaruk L., Dielini M., Alekseiieva K., Artiukh T., Sukhanova A. Project management: study guide of the specialty 073 “Management”. Kyiv: NULES of Ukraine, 2022. 318 p.