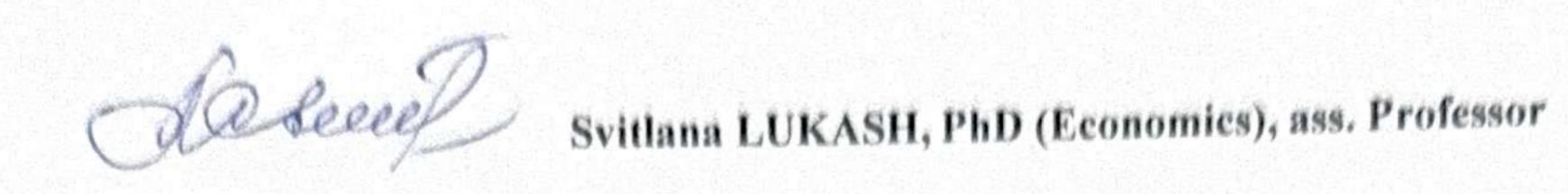
Ministry of education and science of Ukraine Sumy national agrarian university Faculty of economics and management Department of public management and administration

Syllabus of the educational component PRODUCTION ECONOMICS

Specialty	D3 Management
Educational program	Administrative management
HE level	The second (master's) level of higher education

Creators:



Considered, reviewed and approved on the meeting of the department of	Minutes dated	03 June, 2025 # 20	0	
Public management and administration				
	Head of the department		Old (sign)	Alina BRYCHKO (name)
Agreed:				
uarantor of the educational rogram		(sign)	Larys	sa KALACHEVSKA (name)
Dean of the faculty, when program EP is implemen		onal Coleece (sig		Svitlana LUKASH (name)
A review of the work prohas been provided	gram	(sign)	_ Tetyana K	HARCHENKO (attach (name)
		(sigh)	Alina (nan	BRYCHKO (attached) ne)
Methodist of the Departn	nent of Educa	tion Quality,		
licensing and accreditation		J. Toyn (sign)	(Nadi	ya BARANIK) (name)
Registered in the electron	ic database:	date:	7.06	_2025

Information on syllabus reviewing:

Academic year in which the changes are made	The number of the annex to the work program with a	The cha	anges were reviewed and	approved
	description of the changes	Date and number of the protocol of the meeting of the department	Head of department	Guarantor of EP

1. GENERAL INFORMATION ABOUT THE EDUCATIONAL COMPONENT

1.	Name of EC	Production E		01,11 01,121,1		
2.	Faculty/Department		Economics and Management/ Department of Public Management and Administration			
3.	State of EC	Obligatory				
4.	Program(s) to which the EC is attached (to be filled in for obligatory types)	Educational and professional program "Administrative Management" of the second level of higher education, specialty 073 "Management"				
5.	The EC can be suggested for (to be filled in for optional types)					
6.	Semester and duration of module	1 semester, 1-	-15 weeks			
7.	ECTS credits number	5 ECTS				
8.	Total workload and time		Directed study		Self-directed study	
	allotment	Lectures	Practicals	Labs		
		44 hours	30 hours		76 hours	
9.	Language of instruction	English				
10.	Lecturer/Leader of	Svitlana Luka	ash, associate pro	ofessor of Public	e management and	
	educational component	administration department Consultation hours - every Monday at 12:15 p.m., room 207e (economic building)				
11.1	Contact information	svitlana.lukas	sh@snau.edu.ua sh@gmail.com			
11.	Educational component description	of the ability directions, to implementation the effective of the trop product evaluation of important incomportant incomposition of the methods specified production profitability of well as the form the education providing standard providing standard production production production production production production production production productions.	work out the exon, as well as the use and development course is to for the definition and livestory of production prolicators of the exocesses and determined the duction process and determined the production promation of the abound discipline the duction granting in the duction processes and determined the abound discipline the duction of the abound discipline the duction granting assession of corocesses of cro	parameters of conomic characters and skills and alment of the organ and holistic iconduction, occases, to deverticiency of production of several the method ermining the throcesses in plan bility to interpre "Economics of mowledge about the production; of the reconstruction of the recon	cipline, ensures the formation the company's development teristics of the ways of their cilities to independently plan mization's resources. It dea among students about the most production processes in to determine the scope of relop the ability to interpret coluction processes, to master may and working capital for a citudents' ability to qualify the resolution of productivity and may and animal husbandry, as the obtained results. Of production is aimed at the content of the production in working capital; ion; economic evaluation of general economic aspects of the content of livestock production.	

12.	Educational component aim	The purpose of studying the discipline "Production Economics" is the formation of students' theoretical and practical knowledge in the field of production economics, necessary for achieving commercial goals in business, as well as the formation of economic thinking, entrepreneurial and commercial approach to solving production tasks.
13.	Prerequisites for educational component studying, connection with other educational components of EP	The educational component is the basis for such courses as Enterprise Planning, Management Consulting.
14.	Policy of academic integrity	According to the Code of Academic Integrity of the Sumy NAU, academic integrity is a set of principles, rules of behavior of participants in the educational process, aimed at forming an independent and responsible personality, capable of solving tasks in accordance with the educational level in compliance with the norms of law and social morality. Observance of academic integrity by students of higher education involves independent performance of educational tasks, tasks of current and final control, learning results. It is expected that students of higher education will adhere to the principles of academic integrity, being aware of the consequences of its violation, which is determined by the regulatory documents of the Sumy National Agrarian University, in particular the Code of Academic Integrity, the Regulations on the Prevention and Detection of Academic Plagiarism at the Sumy NAU (a full list of regulatory documents is posted on the university's website. https://snau.edu.ua/viddil-zabezpechennya-yakosti-osviti/zabezpechennya-yakosti-osviti/zabezpechennya-yakosti-osviti/zabezpechennya-yakosti-osviti/zabezpechennya-yakosti-osviti/zabezpechennya-yakosti-osviti/jakademichna-dobrochesnist/). For violation of academic integrity, students of higher education may be held to the following academic responsibility: - repeated assessment (test, exam, credit, etc.); - repeated completion of the training course; - warning; - issuing a reprimand; - expulsion from the university (Part 5 of Article 48 of the draft Law of Ukraine "On Education"); - arrest or restriction of liberty, or deprivation of liberty, with deprivation of the right to hold certain positions or engage in certain activities with a fine.
15.	Keywords	Production economics, production process, efficiency, costs, revenues, economic evaluation, marginal income, variable and fixed costs, profit, liquidity, stability, profitability, payback, optimization.

2. LEARNING OUTCOMES UNDER THE EDUCATIONAL COMPONENT AND THEIR RELATIONSHIP WITH PROGRAM LEARNING OUTCOMES

Learning outcomes for EC (MLOs): On successful completion the educational component, the student will be able	Program learning outcomes, PLOs (specify the number according to the numbering given in EP) ¹ PLO ₈ PLO ₁₃ PLO ₁₄		LOs umber the	How assessed
MLOs 1. Apply the conceptual and categorical apparatus and tools of production economics to analyze the efficiency of the production process.		TEOIS	X	Conducting modular and attestation control
MLOs 2. To assess the efficiency of crop production and justify the parameters of the development directions of the industry and the enterprise as a whole.	X	X	X	Current test control (tests on the Moodle/ Kahoot platform, calculation tasks)
MLOs 3. To assess the efficiency of crop production and justify the parameters of the development directions of the industry and the enterprise as a whole.	X	X	X	Current test control (tests on the Kahoot platform, calculation tasks)
MLOs 4. Independently study educational and scientific literature, including Internet resources on production economics	X			Preparation of reports for public presentation on seminar classes

3. CONTENT OF THE EDUCATIONAL COMPONENT (CURRICULUM PROGRAM)

CONTENT OF THE EDUCATIONAL COMPO	112111 (COMM	OLO	MIINOGI	2 3 1 7 1 <i>j</i>	
Topic.	Topic. Distribution within the		Distribution within the general		e general	Learning
List of issues to be considered within the		time b	oudget		resources 2	
topic	Directed study		Self-directed			
	3		study			
	Lectu	Practicals	Labs			
	res					
Topic 1. Methods of evaluating production processes. General understanding of production theory. Simple production, interconnected production. Optimal organization of the farm. Concept of production process. Indicators characterizing production processes. Indicators of evaluation of production processes. Evaluation of the efficiency of production processes. Methods of calculating marginal income. Cost-	6	2		6	. 1,2,4,5,6	
effectiveness of the assessment of production factors.						

¹ It must correspond to the Matrix of ensuring the programmatic learning outcomes by the relevant components of the educational program, specified for the compulsory educational components of OP I and II levels, for all (obligatory and optional EC) EP III

² A specific source from the main or additional recommended literature

Topic 2. Assessment of the need for circulating capital Determination of direct and variable costs. Methodology for determining the need for circulating capital for various production processes. Principles of cost systematization and classification of production factors. Differences between fixed assets and current assets. Expenses arising from the use of fixed assets.	4	4	8	1,2,4,5,6
Topic 3. General economic aspects of crop production. The state and trends of the development of crop production (including modern world trends). General characteristics of production processes of crop production. Principles of systematization of crops according to various criteria. Structure and changes in area under crop use. Forms of organization of arable land and principles of choosing crop rotation. Principles of fertilizer application, their types. Types of plant protection measures.	6	2	6	1,2,4,5,6
Topic 4. Economic evaluation of production process: Production of marketable plant products. General characteristics of crop production processes (winter wheat). Cost of manufactured products. Proportionally variable special costs. The need for production resources. Variable and fixed costs. Indicators of economic efficiency of the production process. Fertilizer requirements and their assessment. Features of assessment of nutrients (requirement, return).	4	4	8	1,2,4,5,6
Topic 5. Economic evaluation of the production process: Production of fodder crops. Peculiarities of production processes of fodder production. Methods of product evaluation. Proportionally variable special costs. Conditionally variable and fixed costs. Indicators of the economic efficiency of the production of fodder crops.	4	4	8	1,2,4,5,6
Topic 6. General economic aspects of livestock production: Content and structure of animal husbandry products, directions of its development. Modern trends in the development of animal husbandry. Economic foundations, main tasks of animal husbandry. Factors determining the development of livestock products.	4	2	6	1,2,4,5,6
Topic 7. Economic evaluation of the production process: Dairy farming General characteristics of dairy farming. The sequence of evaluation of manufactured products. Proportionally variable special costs. Conditionally variable and fixed costs. Principles of cost estimation of fodder products. Aggregation of fodder production and animal husbandry Indicators of economic efficiency.	4	4	8	1,2,4,5,6
Topic 8. Economic evaluation of production process: Breeding and fattening of cattle (breeding heifers and fattening bulls). General features of cattle breeding and fattening. Distribution of the production process. Evaluation of the received products. Proportionally variable special costs. Conditionally variable and fixed costs. Peculiarities of assessment of animals. Value of fertilizer calculation. Aggregation of fodder production and animal husbandry. Requirements for assessment of feed and nutrients. Assessment of energy needs.	4	4	8	1,2,4,5,6
Topic 9. Economic evaluation of the production process: Breeding pig farming. The main features of the process of breeding breeding pigs (dependency of feed and land, evaluation of a unit of production, etc.). The value of the initial estimate. Elements of the variable cost of maintenance of breeding pigs.	4	2	8	1,2,4,5,6
Topic 10. Economic evaluation of production process: Pig fattening The main features of the production process of fattening pigs (dependency of feed and land, evaluation of a unit of production, etc.). Principles of general additional weight calculation. Determinants of the market price of pork. Forms of sale of pork.	4	2	8	1,2,4,5,6
Total	44	30	76	

4. TEACHING AND LEARNING METHODS

MLO	Teaching methods	Number	Teaching methods (what	Number
	(work to be carried out by the teacher <u>during</u> <u>classroom classes</u> , consultations)	of hours	types of educational activities should the student perform independently)	of hours
MLO 1. Apply the conceptual and categorical apparatus and tools of production economics to analyze the efficiency of the production process	Lecture, practical session, discussion, explanation, express survey	16	Development of theoretical material, a report with a presentation on the topic of independent study of the discipline	12
MLO 2. To assess the efficiency of the production of plant products and to substantiate the parameters of the development directions of the industry and the enterprise as a whole	Lecture, practical session, discussion, work in small groups, explanations, solution of situational problems, express survey	16	Development of theoretical material, solution of calculation individual tasks, visual presentation of calculation results and their analysis	16
MLO 3. To assess the efficiency of the production of plant products and to substantiate the parameters of the development directions of the industry and the enterprise as a whole	Lecture, practical session, discussion, work in small groups, explanations, solution of situational problems, express survey	34	Development of theoretical material, solution of calculation individual tasks, visual presentation of calculation results and their analysis	38
MLO 4. Independently study educational and scientific literature, including Internet resources on production economics	Lecture, practical session, discussion, explanation, express survey	8	Development of theoretical material, a report with a presentation on the topic of independent study of the discipline, participation in a discussion club on the chosen topic	10
Number of hours		74		76

5. EVALUATION BY THE EDUCATIONAL COMPONENT

5.1.1 To assess the expected learning outcomes, it is provided:

№	Methods of summative assessment	Points / Weight in the overall assessment	The date of compilation
1.	Testing (multiple choice, open type tests)	45/45%	7-8 week
3.	INHT (calculation task)	25/25%	7-8 week
4.	Exam (written answer to open questions and performance of a practical calculation task)	30 /30%	According to the session's schedule

5.1.2 Evaluation criteria

Component	Unsatisfactory	Satisfactory	Good	Excellent
INHT	TT < 15 points 15-17 points		18-22 points	23-25 points
	The task requirements have not been fulfilled	Most of the requirements are met, but some components are missing or insufficiently disclosed	All requirements of the task have been fulfilled	All the requirements of the task were met, creativity and thoughtfulness were demonstrated, and an own solution to the problem was proposed
Testing	<18 points	18-21 points	22-26 points	27-30 points
	the correct answer was provided for less than 60% of the tasks	the correct answer was provided for 60%-74% of the tasks	the correct answer was provided for 75%-89% of the tasks	90% or more tasks were answered correctly

5.2 Formative assessment:

5.2.1 To evaluate the current progress in education and understand the areas of further improvement, it is provided

№	Elements of formative assessment	Date
1.	Verbal feedback from the teacher during classroom work	constantly
2.	Oral survey during classes and feedback from the teacher during classroom work	constantly
3.	Conversation and discussion during classroom lectures	constantly
4.	Written feedback from the teacher based on the results of the INHW	7-8 week
5.	Discussion of situational tasks and presentations on the subject of independent study of the discipline	constantly
6.	Verbal feedback from the teacher and students after the exam	15 week

Self-assessment can be used as an element of summative assessment and formative assessment.

5.3 Total number of points for EC and rating scale

The total number of points for the educational component is 100 points.

5.3.1 Evaluation scale operating at the University:

The sum of points for all types of educational activities	Evaluation on a national scale			
	For an exam, course project (work), practice, or qualification work	For a credit		
90 – 100	excellent			
82-89	1	passed		
75-81	good			
69-74	1: C 1			
60-68	satisfactory			
35-59	not satisfactory with the possibility of retaking	not passed with the possibility of retaking		
0-34	not satisfactory with obligatory repeated study of the discipline	not passed with obligatory repeated study of the discipline		

EDUCATIONAL RESOURCES (LITERATURE) Main resources

Books, textbooks

- 1. The Economics of Farm Management. A Global Perspective, 2nd edition. Routledge, 2022. 608 p.
- 2. Ronald D. Kay, William M. Edwards and Patricia A. Duffy. Farm Management, 8th Edition. McGraw-Hill, Inc. 2019. 481 p.
- 3. Виробнича економіка / В.П. Галушко та ін.; за ред. В.П. Галушко, Г. Штрьобель: навч. посіб. Вінниця: Нова Книга, 2005. 400 с.

Methodical recommendations

- 4. Lukash S. E-course on "Production economics": https://cdn.snau.edu.ua/moodle/course/view.php?id=3250
- 5. MOOC Massive Open On-line Course "Agrarian Production Economics": https://erasmustopas.eu/expected-results/mooc-topas
- 6. Lukash S. Course-book for English-speaking Students of Economics and Management Faculty, 1rd year of study master's degree, speciality 073 "Management" EP "Administrative management". June, 2020. 115 p.
- 7. Lukash S. Production economics: Economics of production: methodical recommendations for practical classes and individual work for english-speaking students of master's degree, education program"Administrative management" for daily form of studying / Sumy, 2020, 43 p.
- 8. Online learning materials "Corporate Planning and Investment Theory", "Machinery costs calculation" are uploaded on the Moodle.

Others sources

- 1. I. Lozynska, S. Lukash, N. Maslak, A. Brychko (2021). DIGITALIZATION, ROBOTICS AND GENOMIC RESEARCH IN LIVESTOCK DEVELOPMENT. The International Journal of Business Analytics (IJBAN) Vol. 8, Issue 2. 2021. https://www.igi-global.com/article/digitalization-robotics-and-genomic-research-in-livestock-development/276445. Doi:10.4018/ijban.2021040103 (Scopus+ WoS)
- 2. Maslak N., Brychko A., Maslak O., Lukash S. State Policy and Financial Support of Ukrainian Agrarian Economy Development . Public Policy and Administration. Vol 20, № 2 (2021). P. 189-204. DOI: https://doi.org/10.13165/VPA-21-20-2-04. URL: https://ojs.mruni.eu/ojs/public-policy-and-administration/article/view/5380 (Scopus)
- 3. Koblianska, I., Kalachevska, L., Minta, S., Strochenko, N., & Lukash, S. (2021). Modelling and forecasting of potato sales prices in Ukraine. Agricultural and Resource Economics: International Scientific E-Journal, 7(4), 160-179. https://doi.org/10.51599/are.2021.07.04.09 (Web of Science)
- 4. Lukash, S., & Konev, R. (2024). Financial support for farming enterprises in Ukraine in the context of preparation for European integration. Economy and Society, (68). Retrieved from https://economyandsociety.in.ua/index.php/journal/article/view/5049

DOI: https://doi.org/10.32782/2524-0072/2024-68-179

- 6. Lukash, S., Sokhan, I., & Danko, Y. (2023). Research on foreign economic activity of agrarian enterprises of Ukraine. Scientific Perspectives. Series: Economics, (1[31]), 219–228. https://doi.org/10.52058/2708-7530-2023-1(31)
- 7. Lukash, S., Sokhan, I., & Danko, Y. (2023). Research on the activities of agrarian enterprises under globalization: The case of China. Scientific Works of the Interregional Academy of Personnel Management. Economic Sciences, 1(68), 56–61. https://doi.org/10.32689/2523-4536/68-9

Additional sources

- 1. www.ktbl.de
- 2. www.minagro.gov.ua
- 3. https://ima.hswt.de/en/triesdorf-en/mooc-en
- 4. https://ima.hswt.de/en/triesdorf-en/literature-en
- 5. http://www.fas.usda.gov/commodities.asp
- 6. http://epp.eurostat.ec.europa.eu/statistics explained/index.php/Agricultural products
- 7. www.ukrstat.gov.ua
- 8. www.usaid.com
- 9. www.farm.org
- 10. www.kurkul.ua
- 11. www.latifundist.ua
- 12. www.usda.gov.com

Software

Computer programs MAX Ta Regio Max

РЕЦЕНЗІЯ НА РОБОЧУ ПРОГРАМУ (СИЛАБУС)

Параметр, за яким оцінюється робоча програма (силабус) освітнього компонента гарантом або членом проєктної групи	Так	Hi	Коментар
Результати навчання за освітнім компонентом (ДРН) відповідають НРК	4		
Результати навчання за освітнім компонентом (ДРН) відповідають передбаченим ПРН (для обов'язкових ОК)	+		
Результати навчання за освітнім компонентом дають можливість виміряти та оцінити рівень їх досягнення	+		

Член проектної групи ОП Адміністративний менеджмент, к.е.н., доцент

Аліна БРИЧКО

Параметр, за яким оцінюється робоча програма (силабус) освітнього компонента викладачем		Hi	Коментар
відповідної кафедри	1		
Загальна інформація про освітній компонент є достатньою			
Результати навчання за освітнім компонентом (ДРН) відповідають НРК			
Результати навчання за освітнім компонентом (ДРН) дають можливість виміряти та оцінити рівень їх досягнення	+		
Результати навчання (ДРН) стосуються компетентностей студентів, а не змісту дисципліни (містять знання, уміння, навички, а не теми навчальної програми дисципліни)	+		
Зміст ОК сформовано відповідно до структурно-логічної схеми	+		
Навчальна активність (методи викладання та навчання) дає змогу студентам досягти очікуваних результатів навчання (ДРН)	+		
Освітній компонент передбачає навчання через дослідження, що є доцільним та достатнім для відповідного рівня вищої освіти	+		
Стратегія оцінювання в межах освітнього компонента відповідає політиці Університету/факультету			
Передбачені методи оцінювання дозволяють оцінити ступінь досягнення результатів навчання за освітнім компонентом			
Навантаження студентів є адекватним обсягу освітнього компонента			
Рекомендовані навчальні ресурси є достатніми для досягнення результатів навчання (ДРН)			
Література є актуальною			
Перелік навчальних ресурсів містить необхідні для досягнення ДРН програмні продукти	+		

Доцент кафедри публічного управління та адміністрування, д.н.держ.упр., доцент



Тетяна ХАРЧЕНКО