

3. Educational program

3.1. Profile of the educational program «Agribusiness»

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1 - General Information	
Full name of the institution of higher education and structural subdivision	Kyiv National University of Trade and Economics; Faculty of Economics, Management and Psychology; Department of Economics and Business Finance
Degree of higher education and title of qualification	Degree of higher education «bachelor» specialty «Economics» specialization «Agribusiness»
Official name of the educational program	«Agribusiness»
Type of diploma and the volume of the educational program	Bachelor's degree, unitary, 240 ECTS credits, term of study 3 years 10 months
Availability of accreditation	Specialty 051 Accredited by the State Accreditation Commission of Ukraine, until 01.07.2026
Cycle / level	NQF of Ukraine – 6th level, FQ-EHEA – first cycle, EQF-LLL — 6th level
Background	<ul style="list-style-type: none"> - educational degree «junior bachelor»; - complete general secondary education - conditions of admission and training under the Program are regulated by the Rules of admission to KNUTE.
Language of instruction	Ukrainian
Validity of the educational program	2022-2026
Internet address of the permanent placement of the description of the educational program	https://knute.edu.ua
2 - The purpose of the educational program	
Training of highly qualified specialists with modern economic thinking, theoretical knowledge and practical skills of organization, planning and implementation of business processes aimed at ensuring effective operation and sustainable development of agricultural enterprises, able to solve research and practical problems using appropriate tools and algorithms for economic solutions.	
3 - Characteristics of the educational program	
Subject area (field of knowledge, specialty, specialization)	Field of knowledge 05 «Social and behavioral sciences» Specialty 051 «Economics» Specialization «Agribusiness»
Orientation of the educational program	Educational-professional. The program is based on the conceptual theoretical foundations of the leading scientific economic schools and the generalization of practical experience in the field of economics and agribusiness; forms competencies relevant in the labor market, that provide opportunities for professional and scientific career development. It involves studying relevant professional oriented disciplines in accordance with approved programs: «Economics of an agricultural enterprise», «Agricultural marketing», «Agricultural management», «Accounting and taxation in agro-industrial

	enterprises», «Agrarian law», «Agricultural logistics», «Technology of production and processing of livestock products», «Technology of production and processing of crop products», «Standardization, metrology and quality management», «Foreign economic activity of the agricultural sector».
The main focus of the educational program and specialization	<p>Formation of professional competencies to ensure the effective operation and sustainable development of agribusiness enterprises in accordance with modern theory and practice of doing business in this area.</p> <p><i>Key words:</i> agribusiness, agro-enterprise, agrarian sector, economic analysis, planning, forecasting, strategy, tactics, mission, vision, efficiency, effectiveness, business technologies, business processes, business value, business project, investments, innovations, development.</p>
Features of the program	<p>Provides for the expansion of the compulsory component through the study of current professional-oriented disciplines in accordance with the approved author's programs («Economics of an agricultural enterprise», «Agricultural marketing», «Agricultural management», «Accounting and taxation in agro-industrial enterprises», «Agrarian law», «Agricultural logistics», «Technology of production and processing of livestock products», «Technology of production and processing of crop products», «Standardization, metrology and quality management», «Foreign economic activity of the agricultural sector»), which ensure the formation of theoretical knowledge, practical skills and abilities necessary for working in the field of agribusiness.</p> <p>Training at the Training and Research Center for Business Simulations.</p> <p>Practical training on the 3rd and 4th courses at the leading agricultural enterprises of Ukraine (4 weeks each).</p>
4 - Eligibility of graduates to employment and further training	
Придатність до працевлаштування	<p>Employment <i>in enterprises of various forms of ownership operating in the field of agribusiness, in public authorities and local governments, public organizations in positions related to this type of economic activity.</i></p> <p>The specialist of the degree of higher education "bachelor" according to the National classifier of professions DK 003: 2010 can occupy the following primary positions:</p> <p><i>supply agent; commercial agent; trade agent; administrative assistant; public inspector for land use and protection; director (manager) of a small agricultural enterprise; head of the agriculture subsidiary; purchasing agent; state inspector for procurement and quality of agricultural products; trade inspector; commodity inspector; managers of small enterprises without management staff in agriculture, hunting, water management, forestry, fishing; heads of production departments in agriculture, forestry and water management, fish farming, fisheries and nature reserves; chiefs (other managers) and masters of production departments in agriculture, forestry and water management, in fish farming, fishing and nature reserve; estimator; delivery organizer; sales organizer; assistant manager of the production department; assistant manager of other</i></p>

	<p><i>main departments; assistant manager of a small enterprise without management staff; assistant manager of an enterprise (institution, organization); sales representative; auditor for production, technical and economic issues; commercial auditor; trade broker; commercial trader; stock exchange specialist; specialist in the organization and management of the farm; asset management specialist.</i></p> <p><i>The graduate may hold other positions in accordance with the professional titles of works characterized by special (professional) competencies.</i></p>
Further training	Opportunity to continue education at the second (master's) level of higher education in master's educational programs in the field of knowledge «Social and Behavioral Sciences» and in interdisciplinary programs close to agribusiness.
5 - Teaching and assessment	
Teaching and learning	Balanced combination of classroom (review lectures, lecture-discussions, seminars, practical classes; work in small groups, simulation of situations, moderation, "brainstorming", training tasks, case study method, business and role-playing games, trainings, independent work with information sources, teacher consultations, distance learning) and independent work on the basis of problem-oriented, interactive learning and self-learning.
Assessment	<p>Current control (testing, problem solving and situational exercises, cases, presentations, discussions, public speeches, essays, individual works), written exams, practice, course work in the profile discipline, passing the qualifying exam.</p> <p>Assessment is carried out in accordance with the "Regulations on the assessment of learning outcomes of students and graduate students" and "Regulations on the organization of the educational process of students" of the KNUTE.</p>
6 - Program competencies	
Integral competence	Ability to solve complex specialized problems and practical problems in the economic sphere, <i>in particular to ensure the effective operation and sustainable development of agribusiness enterprises</i> , which are characterized by complexity and uncertainty of conditions, which involves the application of theories and methods of economics.
General Competences (GC)	<p>GC1. The ability to realize their rights and responsibilities as a member of society, to realize the values of civil (democratic) society and the need for its sustainable development, the rule of law, human and civil rights and freedoms in Ukraine.</p> <p>GC2. Ability to preserve moral, cultural, scientific values and increase the achievements of society based on understanding the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, technology, to use different types and forms of physical activity for active recovery and leading a healthy lifestyle.</p> <p>GC3. Ability to abstract thinking, analysis and synthesis.</p> <p>GC4. Ability to apply knowledge in practical situations.</p> <p>GC5. Ability to communicate in the state language both orally and in writing.</p> <p>GC6. Ability to communicate in a foreign language.</p>

	<p>GC7. Skills to use information and communication technologies.</p> <p>GC8. Ability to search, process and analyze information from various sources.</p> <p>GC9. Ability to adapt and act in a new situation.</p> <p>GC10. The ability to be critical and self-critical.</p> <p>GC11. Ability to make reasonable decisions.</p> <p>GC12. Interpersonal skills.</p> <p>GC13. The ability to act socially responsibly and consciously.</p>
<p>Special (professional, subject) competencies</p>	<p>SC1. Ability to identify knowledge and understanding the problems of the subject area, the basics of the modern economy at the micro-, meso-, macro- and international levels.</p> <p>SC2. Ability to carry out professional activities in accordance with applicable regulations and legal acts.</p> <p>SC3. Understanding the features of leading scientific schools and areas of economics.</p> <p>SC4. Ability to explain economic and social processes and phenomena on the basis of theoretical models, analyze and interpret the results.</p> <p>SC5. Understanding of features of modern world and national economy, their institutional structure, substantiation of directions of social, economic and foreign economic policy of the state.</p> <p>SC6. Ability to apply economic and mathematical methods and models to solve economic problems.</p> <p>SC7. Ability to use computer technology and data processing software to solve economic problems, analyze information and prepare analytical reports.</p> <p>SC8. Ability to analyze and solve problems in the field of economic and social relations.</p> <p>SC9. Ability to predict socio-economic processes on the basis of standard theoretical and econometric models.</p> <p>SC10. Ability to use modern sources of economic, social, managerial, accounting information for the preparation of official documents and analytical reports.</p> <p>SC11. Ability to justify economic decisions based on understanding the laws of economic systems and processes and using modern methodological tools.</p> <p>SC12. The ability to independently identify problems of an economic nature in the analysis of specific situations, to suggest ways to solve them.</p> <p>SC13. Ability to conduct economic analysis of the functioning and development of economic entities, assessment of their competitiveness.</p> <p>SC14. Ability to analyze in depth problems and phenomena in one or more professional areas, taking into account economic risks and possible socio-economic consequences.</p> <p>SC15. <i>Ability to evaluate, diagnose and find opportunities to achieve positive changes in the activities of enterprises in the agricultural sector of the economy and their structural units.</i></p> <p>SC16. <i>Ability to substantiate effective economic decisions to ensure sustainable development of agribusiness enterprises.</i></p>

SC17. Ability to ensure the integration of national, corporate and personal interests of participants in economic processes.

7 - Program learning outcomes

1. To associate oneself as a member of civil society, the scientific community, recognize the rule of law, in particular in professional activities, understand and be able to exercise their rights and freedoms, show respect for the rights and freedoms of others, including members of the team.
2. To reproduce moral, cultural, scientific values, to increase the achievements of society in the socio-economic sphere, to promote a healthy lifestyle.
3. To know and use economic terminology, to explain the basic concepts of micro- and macroeconomics.
4. To understand the principles of economics, features of economic systems.
5. To apply analytical and methodological tools to substantiate proposals and management decisions by various economic agents (individuals, households, enterprises and public authorities).
6. To use professional reasoning to convey information, ideas, problems and ways to solve them to specialists and non-specialists in the field of economic activity.
7. To explain the models of socio-economic phenomena in terms of fundamental principles and knowledge based on an understanding of the main directions of development of economics.
8. To apply appropriate economic and mathematical methods and models to solve economic problems.
9. To understand the main features of the modern world and national economy, institutional structure, areas of social, economic and foreign economic policy of the state.
10. To analyze the functioning and development of economic entities, to determine the functional areas, to calculate the relevant indicators that characterize the effectiveness of their activities.
11. To be able to analyze the processes of state and market regulation of socio-economic and labor relations.
12. To apply the acquired theoretical knowledge to solve practical problems and meaningfully interpret the results.
13. To identify sources and understand the methodology for determining and methods of obtaining socio-economic data, collect and analyze the necessary information, calculate economic and social indicators.
14. To identify and plan opportunities for personal professional development.
15. To demonstrate basic skills of creative and critical thinking in research and professional communication.
16. To be able to use data, provide arguments, critically evaluate logic and draw conclusions from scientific and analytical texts on economics.
17. To perform interdisciplinary analysis of socio-economic phenomena and problems in one or more professional areas, taking into account the risks and possible socio-economic consequences.
18. To use regulations and legal acts which govern professional

	<p>activities.</p> <p>19. To use information and communication technologies to solve socio-economic problems, prepare and present analytical reports.</p> <p>20. To master the skills of oral and written professional communication in state and foreign languages.</p> <p>21. To be able to think abstractly, apply analysis and synthesis to identify key characteristics of economic systems of different levels, as well as the behavior of their subjects.</p> <p>22. To demonstrate flexibility and adaptability in new situations, in working with new objects, and in uncertain conditions.</p> <p>23. To show skills of independent work, demonstrate critical, creative, self-critical thinking.</p> <p>24. To demonstrate the ability to act socially responsibly and consciously on the basis of ethical principles, to appreciate and respect cultural diversity, individual differences.</p> <p>25. <i>To own digital technologies in agribusiness.</i></p>
8 - Resource support for the implementation of the program	
Personnel support	<p>Specialists who train bachelors in the educational program "Agribusiness" must have professional knowledge and professional skills in economics and finance, including agricultural enterprises, economic analysis and planning, valuation of agribusiness, digital technologies in agribusiness.</p> <p>The participation of foreign specialists and practitioners in the teaching of disciplines of the training cycle is possible.</p>
Material and technical support	<p>Ensuring the availability of the necessary resources for the organization of the educational process, including independent work of students, for each educational program in accordance with the Regulations on the organization of the educational process of students; Regulations on independent work of students and graduate students of KNUTE.</p> <p>The basis of material and technical support are laboratories, computer and specialized classrooms of KNUTE with modern technical and software resources that provide quality training for bachelors in the educational program "Agribusiness".</p> <p>Availability of social and household infrastructure of KNUTE.</p>
Information and teaching-methodological support	<p>Ensuring the availability of information systems for effective management of the educational process through systems:</p> <ul style="list-style-type: none"> • distance learning MOODLE (provides independent and individual training, control), • availability of Internet access and e-mail, • systems «Dean's Office», «1-C: Accounting for Ukraine» (financial support), «Workload-schedule», • management of WEB-resources of KNUTE, • library fund management, • electronic document management system «OPTiMA–WorkFlow», • corporate information field in the form of a «personal account» of the user of the KNTEU web portal. <p>Ensuring publicity of information about educational programs, degrees of higher education and qualification: implementation of</p>

	<p>KNUTE information policy; publication on the official website of KNUTE of ECTS information packages, educational programs, class schedules, as well as all components of the educational process, which are subject to publication in accordance with the Law of Ukraine «On Higher Education».</p> <p>Ensuring an effective system of prevention and detection of academic plagiarism in the scientific works of KNTUE employees and applicants for higher education (publication of the text of dissertation research on the official website of KNUTE), compliance with the Code of Ethics of the scientist of Ukraine.</p> <p>Other procedures and measures to ensure compliance with the Licensing Conditions for educational activities by educational institutions.</p> <p>Information support is provided by the online system for business analytics «YouControl»; educational and methodological support is implemented through the distance learning system MOODLE.</p>
9 - Academic mobility	
National Credit Mobility	It is envisaged by law and it is expedient when it becomes necessary to study (mastering) students of fundamentally new courses, disciplines that are not taught in the basic institution of higher education. Regulations on the procedure for realization of the right to academic mobility in KNUTE have been developed.
International Credit Mobility	The University has concluded agreements on cooperation between KNUTE and higher education institutions, in which partner exchange and student training are carried out. In addition, international academic mobility is carried out through international programs and projects within Erasmus+ in particular with the following universities: Krakow University of Economics (Poland, Krakow), Szczecin University (Poland, Szczecin), Business School "Audensia" (France, Nantes), University of the Grenoble Alps (France, Grenoble), Pari Es Cretay University (France, Paris), University of Central Lancashire (Great Britain, Preston), University of Hohenheim (Germany, Stuttgart), Piraeus University of Applied Sciences (Greece, Piraeus), Clement Ohrid University (Bulgaria, Sofia).
Teaching foreign applicants for higher education	<p>Conditions and features of the educational program in the context of teaching foreign citizens: knowledge of the Ukrainian language at a level not lower than B1.</p> <p>For foreign students, the discipline «Ukrainian language» is taught for 1-3 semesters with a separate schedule by teachers who have completed special training in teaching Ukrainian as a foreign language.</p>

3.2. List of components of the educational program and their logical consistency

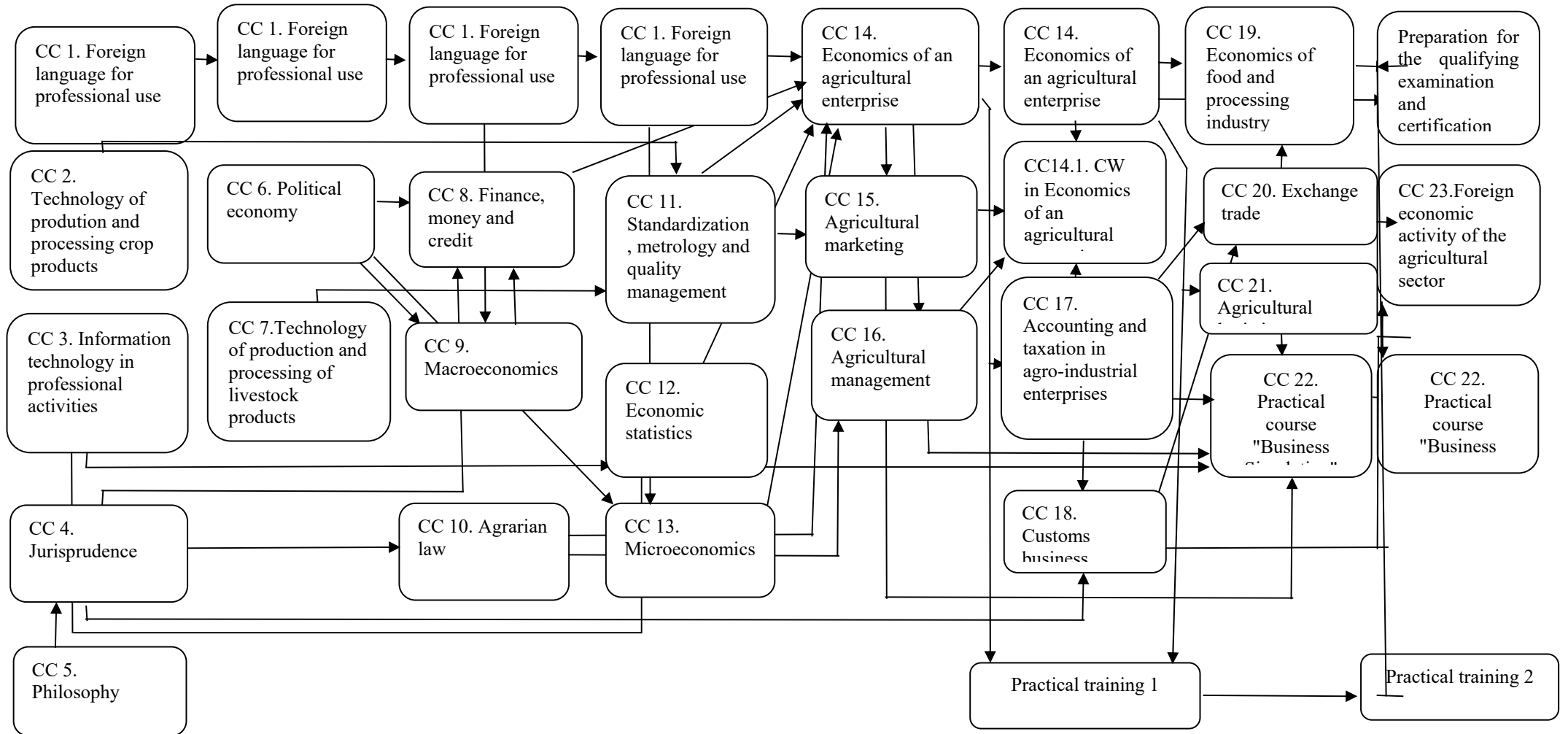
3.2.1. List of components of the EP

Code a/d	Components of the educational program (academic disciplines, course projects (works), practice, qualification examination, graduation work)	Amount of credits
1	2	3
Compulsory components of the EP		
CC 1.	Foreign language for professional use	24
CC 2.	Technology of production and processing of crop products	6
CC 3.	Information technology in professional activities	6
CC 4.	Jurisprudence	6
CC 5.	Philosophy	6
CC 6.	Political economy	6
CC 7.	Technology of production and processing of livestock products	6
CC 8.	Finance, money and credit	6
CC 9.	Macroeconomics	6
CC 10.	Agrarian law	6
CC 11.	Standardization, metrology and quality management	6
CC 12.	Economic statistics	6
CC 13.	Microeconomics	6
CC 14.	Economics of an agricultural enterprise	12
CC 14.1	CW in Economics of an agricultural enterprise	
CC 15.	Agricultural marketing	6
CC 16.	Agricultural management	6
CC 17.	Accounting and taxation in agro-industrial enterprises	6
CC 18.	Customs business	6
CC 19.	Economics of food and processing industry	6
CC 20.	Exchange trade	6
CC 21.	Agricultural logistics	6
CC 22.	Practical course "Business Simulation"	9
CC 23.	Foreign economic activity of the agricultural sector	6
Total amount of compulsory components:		165
Selective components of the EP		
SC 1.	Web-design and Web-programming	6
SC 2.	Agrarian policy	6
SC 3.	Auditing	6
SC 4.	Life safety	6
SC 5.	Business planning	6
SC 6.	Higher and Applied Mathematics	6
SC 7.	Commercial law	6
SC 8.	Monetary valuation of land	6
SC 9.	Digital technologies in business	6
SC 10.	Diplomatic and business protocol and etiquette	6
SC 11.	Contract law	6
SC 12.	Ecology	6
SC 13.	Economics and organization of exchange activity in the agro-industrial complex	6
SC 14.	Economics and organization of innovation	6

1	2	3
SC 15.	Economy of Ukraine	6
SC 16.	Economic and mathematical modeling	6
SC 17.	Economic analysis	6
SC 18.	Electronic document management	6
SC 19.	Enterprise statement	6
SC 20.	Intellectual property	6
SC 21.	Information systems and technologies in economics	6
SC 22.	History of Ukraine	6
SC 23.	Logic	6
SC 24.	International credit settlement and currency transactions	6
SC 25.	National interests in world geopolitics and geoeconomics	6
SC 26.	Accounting according to economic activity	6
SC 27.	Accounting in small businesses	6
SC 28.	Organization of wholesale trade	6
SC 29.	Politicalology	6
SC 30.	Forecasting of socio-economic processes	6
SC 31.	Project analysis in agribusiness	6
SC 32.	Business psychology	6
SC 33.	Psychology	6
SC 34.	World culture	6
SC 35.	Social economy	6
SC 36.	Insurance in agribusiness	6
SC 37.	Craft production technologies	6
SC 38.	Technologies of food production	6
SC 39.	Commodity science	6
SC 40.	Ukrainian language (for professional use)	6
SC 41.	Food safety and quality management (livestock, crop products)	6
SC 42.	Human Resources Management	6
SC 43.	Farming	6
Total amount of selective components:		60
Practical training		
Practical training 1		6
Practical training 2		6
Total amount of practical training:		12
Certification		
Preparation for qualification exam and certification		3
TOTAL AMOUNT OF THE EDUCATIONAL PROGRAM		240

For all components of the educational program, the form of final control is an **examination**.

3.2.2. Strucratal-logical scheme of the EP



3.3. Form of attestation of applicants for higher education

Certification is carried in the form of a qualifying examination. Атестація здійснюється у формі кваліфікаційного екзамену.

The qualifying examination in the specialty must verify the achievement of learning outcomes defined by the Standard of Higher Education and the educational program.

3.4. Matrix of correspondence of program competences to compulsory components of the educational program

Components/ Competencies	CC 1	CC 2	CC 3	CC 4	CC 5	CC 6	CC 7	CC 8	CC 9	CC 10	CC 11	CC 12	CC 13	CC 14	CC 14.1	CC 15	CC 16	CC 17	CC 18	CC 19	CC 20	CC 21	CC 22	CC 23
GC1				+	+					+														
GC2					+	+			+				+											
GC3			+		+	+		+	+			+	+	+	+	+	+	+	+	+	+	+	+	+
GC4	+	+	+	+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
GC5		+		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+
GC6	+																							+
GC7			+									+		+	+	+	+	+	+	+	+	+	+	+
GC8	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
GC9					+									+		+	+				+		+	+
GC10					+																			
GC11		+					+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
GC12	+													+		+	+						+	+
GC13					+						+			+		+	+							
SC1		+				+	+	+	+	+			+	+		+	+	+				+	+	+
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SC4					+	+			+			+	+		+		+							
SC5						+			+															+
SC6									+			+	+	+		+				+		+	+	
SC7			+									+		+	+	+		+	+	+	+	+	+	+
SC8										+				+			+			+	+		+	
SC9									+			+												
SC10	+											+		+		+		+	+	+	+	+	+	+
SC11								+	+				+	+	+	+	+			+	+	+	+	+
SC12													+	+	+	+	+			+	+	+	+	
SC13													+	+	+		+			+			+	
SC14									+		+		+	+	+	+	+		+	+		+	+	+
SC15		+					+							+	+	+	+					+	+	
SC16														+	+	+	+					+	+	+
SC17										+				+	+		+		+					+

3.5. Matrix of correspondence of program competences to selective components of the educational program

Components/ Competences	SC1	SC2	SC3	SC4	SC5	SC6	SC7	SC8	SC9	SC10	SC11	SC12	SC13	SC14	SC15	SC16	SC17	SC18	SC19	SC20	SC21	SC22	SC23	SC24	SC25	SC26	SC27	SC28	SC29	SC30	SC31	SC32	SC33	SC34	SC35	SC36	SC37	SC38	SC39	SC40	SC41	SC42	SC43					
GC1		+					+				+	+									+		+			+																+	+					
GC2										+					+								+				+					+											+	+				
GC3	+		+		+	+			+			+		+	+	+	+					+		+	+	+	+	+	+			+	+										+	+				
GC4	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
GC5	+	+	+	+	+		+	+	+	+	+	+	+	+	+		+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
GC6									+																											+												
GC7	+		+		+				+				+	+		+	+	+	+	+		+									+	+																
GC8	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
GC9				+						+				+										+		+			+		+		+	+								+	+					
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GC12										+															+										+	+							+	+				
GC13				+	+		+				+	+																						+	+		+					+	+					
SC1		+													+						+					+			+																			
SC2			+	+	+		+	+			+	+	+	+					+	+					+		+	+	+	+								+	+	+	+	+	+	+	+	+		
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SC12		+	+		+				+				+	+	+							+																+									+	
SC13			+		+									+																																	+	
SC14		+		+	+						+											+				+								+	+										+	+	+	+
SC15					+																																							+	+	+	+	
SC16		+			+				+					+	+																				+												+	+

3.6. Matrix of providing program learning outcomes with the relevant compulsory components of the educational program

Components Program learning outcomes/ outcomes/	CC 1	CC 2	CC 3	CC 4	CC 5	CC 6	CC 7	CC 8	CC 9	CC 10	CC 11	CC 12	CC 13	CC 14	CC 14.1	CC 15	CC 16	CC 17	CC 18	CC 19	CC 20	CC 21	CC 22	CC 23	
1				+	+			+		+	+						+		+						
2					+																				
3						+		+	+			+	+	+		+				+	+	+	+	+	+
4						+			+				+	+						+	+				+
5			+			+						+	+	+	+	+	+			+	+	+	+	+	+
6										+	+				+		+	+					+	+	
7						+		+	+				+												
8									+			+	+	+						+			+	+	+
9						+			+																+
10			+									+	+	+	+	+	+			+			+	+	+
11				+					+				+	+			+			+			+		
12		+					+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
13								+	+			+	+	+	+	+	+			+	+	+		+	+
14														+										+	
15					+	+						+		+	+	+	+			+	+	+	+	+	+
16						+			+			+	+	+	+	+	+			+			+	+	
17									+				+	+			+							+	+
18		+		+			+	+		+	+			+					+	+	+	+		+	+
19			+									+		+	+	+	+	+	+	+	+	+	+	+	+
20	+	+		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+
21			+		+	+		+	+			+	+	+	+	+	+	+	+	+	+	+	+	+	+
22					+									+		+	+					+		+	+
23					+									+	+	+	+			+				+	
24					+						+					+	+								
25			+													+								+	

3.7. Matrix of providing program learning outcomes with the relevant selective components of the educational program

Components / Program learning outcomes	SC1	SC2	SC3	SC4	SC5	SC6	SC7	SC8	SC9	SC10	SC11	SC12	SC13	SC14	SC15	SC16	SC17	SC18	SC19	SC20	SC21	SC22	SC23	SC24	SC25	SC26	SC27	SC28	SC29	SC30	SC31	SC32	SC33	SC34	SC35	SC36	SC37	SC38	SC39	SC40	SC41	SC42	SC43					
1		+		+			+			+	+	+			+					+									+															+				
2				+								+														+								+									+					
3					+								+	+	+		+							+					+		+	+																
4													+	+	+		+													+																		
5			+		+			+	+				+	+		+	+				+				+				+		+	+														+		
6		+	+		+		+				+		+	+			+				+			+			+	+	+		+	+					+	+	+	+	+				+	+		
7															+	+	+														+		+															
8					+	+										+	+														+	+															+	
9		+										+			+										+	+										+	+											
10			+		+									+			+															+															+	
11		+					+	+			+	+	+	+	+						+				+	+				+					+	+					+	+			+	+		
12	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
13		+	+	+	+			+	+			+	+	+	+	+	+	+	+		+			+	+	+	+	+	+		+	+				+	+				+		+	+	+	+		
14																																				+	+									+		
15	+		+		+		+				+			+		+					+		+	+		+			+		+	+	+	+	+	+											+	
16			+		+										+		+	+						+			+	+									+										+	
17		+		+	+							+					+						+		+				+		+	+												+				
18			+	+	+		+	+			+	+	+	+			+			+	+			+		+	+	+								+	+	+	+	+	+	+	+	+	+	+		
19	+		+		+				+	+			+	+		+	+	+	+		+			+		+	+	+	+	+	+	+	+		+									+				
20	+	+	+	+	+		+	+	+	+	+	+	+	+	+		+		+	+			+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
21	+		+		+	+			+			+		+	+	+	+						+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
22				+	+					+				+															+		+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
23		+		+	+									+		+								+						+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
24				+	+		+			+	+	+				+								+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
25									+																																							

