



NATIONAL UNIVERSITY OF LIFE AND  
ENVIRONMENTAL SCIENCES OF UKRAINE

# BACHELOR DEGREE 2013-2014 ACADEMIC YEAR



**LEADING  
RESEARCH  
UNIVERSITY**

**WORK EXPERIENCE**

**115** years

**NUMBER  
OF STUDENTS**

**40 000**

**BACHELORS**

**18 500**

**PROGRAMS**

**29**

**NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE**

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## *Dear applicants!*

It is time to define the path in your life which is not easy at all. A lot of career paths are open in front of you. Which one to follow?

I would recommend that you choose the path that would lead you to the National University of Life and Environmental Sciences of Ukraine.

NULES of Ukraine is one of the oldest and most prestigious higher educational institutions which offers training in agriculture, natural sciences, biotechnologies and environmental protection. Over three thousand highly professional teachers and scientists (including more than 300 professors and full doctors and more than 1,300 associate professors and PhDs) work at the University, keep its traditions and glorious past. More than 40 thousand young and enthusiastic students study here.

Throughout its 115-year old history the University has been training specialists in: plant protection, agronomy, ecology and biotechnology, veterinary medicine, zooengineering and fishery, forestry, park and gardening, landscape designing, mechanical engineering, machinery designing and engineering, energy and automation, food technology, computer sciences and economic cybernetics, economy, accountants, finance, management and marketing, jurisprudence, social work and linguistics. A plentiful choice!

After obtaining bachelor's degree you can go on to do a master's degree in related specialties in order to become a highly-qualified professional.

The university cooperates with many scientific research institutes of the National Academy of Sciences of Ukraine and the National Academy of Agrarian Sciences of Ukraine. This cooperation promotes organization of new departments headed by leading Ukrainian scientists. The university provides great opportunities for research to over 600 postgraduates and doctoral students.

Broad international relations of NULES of Ukraine create conditions for internship and training of talented students and teachers at universities of the U.S., Europe and Asia. Fruitful cooperation with the highly prestigious universities in the spheres of environmental protection, biotechnology and agriculture has ensured reformation and recognition of the education system at our university.

The centuries old heritage of the capital of our country - the beautiful city of Kyiv, - its art, literature, culture and science have always attracted our students. You have got plenty of opportunities to develop your talents in sport, dancing, music and drama.

If you decide to enter our University, you are sure to make the right decision!

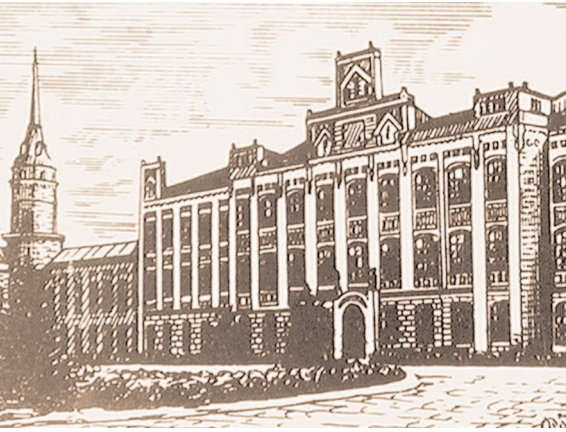
Good luck! Twenty faculties are looking forward to enroll you on our courses!

Respectfully yours,

*Rector of National University of Life and Environmental Sciences of Ukraine,  
Full member of the National Academy of Science of Ukraine  
and the Ukrainian Academy of Agrarian Sciences,  
The Hero of Ukraine*

 A handwritten signature in black ink, appearing to read 'Dmytro O. Melnychuk'.
 

Dmytro O. Melnychuk



## A BRIEF HISTORY

The history of the National University of Life and Environmental Sciences of Ukraine originated from Agricultural department and Veterinary faculty of Kyiv Polytechnic Institute, Department of Forestry of Agricultural Institute in Marimont (Poland).

The agricultural department of Kyiv Polytechnic institute (opened in August 31, 1898) was transformed into Agricultural (Agronomic) faculty in 1918, and later in 1922 into Kyiv Agricultural Institute, which became an independent higher educational institution in 1923.



In 1948 on the occasion of its 50th anniversary, the institute was rewarded with the Order of the Red Banner for outstanding achievements in teaching and research work.

Kyiv Forestry Institute began its history from the Institute of Agriculture in Marimont (Poland, 1840), which affiliated with Warsaw forest school and later was reorganized into the Institute of Agriculture and Forestry. In 1862 it was transferred to Novo-Alexandriya (now - Pulawy, Poland). In 1930 the Forestry Faculty of Kharkiv Agricultural Institute was moved to Kyiv and affiliated with Wood-engineering faculty of Kyiv Agricultural Institute to become the Ukrainian Institute of Forestry, and the same year it was reorganized into Kyiv Forestry Institute.

In 1954 Kyiv Agricultural Institute and Kyiv Forestry Institute merged into one institution, called the "Ukrainian Agricultural Academy of the Order of the Red Banner " (UAA).





From 1956 to 1962 the Ukrainian Agricultural Academy was a part of the the Ukrainian Academy of Sciences (UAS)

In 1957 Kyiv Veterinary Institute was joined to UAS, the Institute began its work as a veterinary faculty of Kiev Polytechnic Institute (1920), and since 1921 it functioned as an independent Kyiv Veterinary and Zootechnology Institute. Kyiv Veterinary institute has existed since 1930.

In August 1992 the Ukrainian Agricultural Academy was formed into the Ukrainian State Agrarian University and got national status according to the resolution of the Verkhovna Rada of Ukraine No. 158 from July 29, 1994. Since that time it existed as the National Agrarian University and according to the above resolution of the Verkhovna Rada of Ukraine and the resolution of the Cabinet of Ministers of Ukraine No. 387 from June 1, 1995 has been subordinated to Cabinet of Ministers of Ukraine.

To expand the educational, research and innovation activities of the National Agrarian University and to satisfy the needs of agricultural, environmental and other industries, as well as to adapt these activities to the requirements of international organizations of research universities, National Agrarian University was renamed into the National University of Life and Environmental Sciences of Ukraine (NULES of Ukraine) by the resolution of the Cabinet of Ministers of Ukraine No. 945 dated from October 30, 2008, and in 2010 it received the status of self-governing (autonomous) research national university.





### Training programs at NULES of Ukraine

<b>JUNIOR SPECIALIST</b> <i>(only at regional HEU)</i>	<b>33</b>	specialties
<b>BACHELOR</b>	<b>29</b>	specialties
<b>SPECIALIST</b>	<b>27</b>	specialties
<b>MASTER</b>	<b>44</b>	specialties
<b>PhD</b>	<b>79</b>	specialties
<b>DOCTOR PROGRAMS</b>	<b>56</b>	specialties

## About the University

National University of Life and Environmental Sciences of Ukraine (NULES of Ukraine - NULESU) was founded in 1898 and is now one of the leading higher educational institutions in Ukraine of the IV level of accreditation in agroindustrial and environmental branches.

The Rector of NULESU, Dmytro Oleksiyovych Melnychuk, is the Hero of Ukraine, full member of the National Academy of Sciences of Ukraine and the National Academy of Agrarian Sciences of Ukraine, Doctor of Biology, Professor.

According to the resolutions of the Cabinet of Ministers of Ukraine No. 945 from 30.10.2008 and No. 76 from 03.02.2010 National University of Life and Environmental Sciences of Ukraine was granted the status of self-governing (autonomous) research national university.

The basic institution of the University (Kyiv) includes 12 educational and research institutes, 14 research institutes, 26 interinstitutional education and research centers and 25 education and research centers, 20 faculties and 127 departments.

The structural parts of NULESU are Southern Filial of NULES of Ukraine "Crimean Agrotechnological University" (Crimea); separated subdivisions of NULESU: 12 higher educational institutions of second and third level of accreditation in different regions of Ukraine - "Berezhany Agrotechnical Institute", "Nizhyn Agrotechnical Institute", "Irpyn Economic College", "Nemishayevo Agrotechnical College", "Boyarka College of Ecology and Natural Resources", "Zalishchyky College of Agriculture" named after E. Khraplyvyi, "Bobrovytsia College of Economics and Management named after O.Mainova", "Mukacheve Agricultural College", "Prybrehne Agricultural College", "Crimean Agroindustrial College", "Bakhchysarai College of Construction, Architecture and Design", "Crimean Technical College of Hydromelioration and Mechanization of Agriculture", 5 training, information and consulting centers (TICC) - "Tarashchanskyi TICC", "Lubenskyi TICC", "Malyn TICC", "Mukacheve TICC" and "Bobrovytskyi TICC".

NULESU has its own bases for practical training of students: 3 research stations; 7 experimental farms, special bases for practical training in separated subdivisions of NULESU - regional higher educational institutions of first-third level of accreditation; education and research center of biology and ecology of subtropical plants and landscape study (Crimea), Botanical Garden of NULES of Ukraine.

The total area of farmlands and stations is more than 37,000 hectares (including about 18,000 hectares of woods). There are fields, greenhouses, livestock farms, automobiles and tractor yards, workshops, testing grounds, etc.

The academic process and scientific research in NULESU are provided by more than three thousand scientific and teaching staff (including 1,500 full-time staff). There are more than 350 full doctors and professors, more than 1 300 PhDs and associate professors.

### Quality Management System

Since March, 2010 NULES of Ukraine started to provide the quality management system in accordance with international standard ISO 9001:2008 "Quality Management Systems". In March 2012 certification audit of quality management system was conducted by auditors of one of the leading companies, that provides independent technical services and is represented at all world markets - TUV Rheinland InterCert, which is a part of the TUV Rheinland. The organization is authorized to carry out technical supervision, certify products, system of management and staff in accordance with international standards. The company was founded in 1872 in Germany and has about 500 offices in 60 countries.

By the results of the audit from April 27, 2012 in Brussel (Belgium) the University received a certificate of Quality Management System conformity to international standard ISO 9001:2008 "Quality Management Systems" in the field of "Education and Research".





## Bachelor programs

Bachelor's degree is an education and qualification level (EQL) in higher education which can be obtained by a person who completed secondary education and received basic and special skills and knowledge about generalized object of work (activity), sufficient for doing tasks and responsibilities (work) of a certain level of professional activity that are provided for primary positions in a certain kind of economic activity.

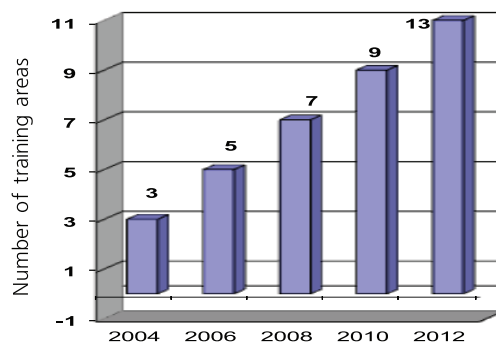
Bachelor training can be provided on the basis of educational qualification level of junior specialist.

The National University of Life and Environmental Sciences of Ukraine trains students in 29 bachelor programs (see table).

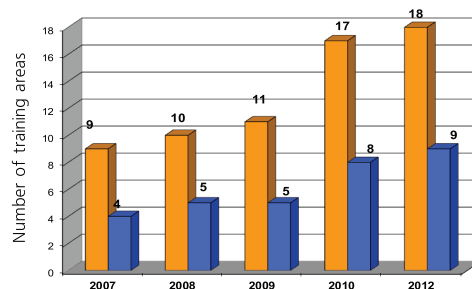
In order to increase the mobility of students and meet the key requirements of the Bologna process NULESU provides training of students with instruction in English. Most English instruction courses are taught for certain groups of students in 13 bachelor programs. The dynamics of programs is shown on the chart.

Junior Specialists have an opportunity to obtain Bachelor degree in short training program (two years program), if their speciality corresponds to the program which they choose. The number of such programs (currently 18) increases annually in basic institution of the University (Kyiv) and in Southern Filial of NULES of Ukraine "Crimean Agrotechnological University" (Crimea) (see chart).

**Dynamics of bachelor programs with instruction in English**



**Dynamics of bachelor programs with instruction in English (short term)**



■ Basic institution of the University (Kyiv) NULES of Ukraine  
■ Southern Filial of NULES of Ukraine "Crimean Agrotechnological University" (Crimea)



**Training for EQL "Bachelor" is provided  
at NULES of Ukraine in 29 programs**

Programs	Full time study	Short time study	English language training
Agronomy	•	•	•
Plant protection	•	•	•
Biotechnology	•		•
Ecology, environmental protection and balanced natural resources application	•	•	•
Technology of production and processing of animal products	•	•	
Water biorecources and aquaculture	•	•	
Food technology and Engineering	•		
Veterinary medicine	•	•	•
Forestry and park-gardening	•	•	
Woodworking technology	•	•	
Processes, machines and equipment of agroindustrial production	•	•	
Transport technology (by mode of transport)	•	•	
Machine building	•		
Construction	•	•	
Energetics and electrotechnical systems in agriculture	•	•	
Electrical engineering and technology	•		
Automatization and computer integrated technologies	•	•	
Geodesy, Cartography and Land Management	•	•	•
Jurisprudence	•	•	
Economics of enterprise	•	•	•
Accounting and Audit	•	•	•
Finance and credit	•	•	•
Marketing	•		•
Management	•		
Economic Cybernetics	•		
Computer sciences	•	•	•
Social pedagogy	•		•
Philology (translation)	•		•
Science of commodities and commercial business	•		

## Admission of students to bachelor programs in 2013

### Dates for application, competitive assessment of certificates, entrance exams, competitive selection and admission

Form of study	Registration	Entrance exams	Rating list	Admission
Full-time	01.07-31.07.2013	21.07-31.07.2013	01.08.2013 05.08.2013 08.08.2013	state order by 11.08.2013, contract by 25.08.2013.
extra-mural; external	17.07 -15.08.2013	13.08 - 15.08.2013	16.08.2013 20.08.2013 23.08.2013	state order by 26.08.2013, contract by 30.08.2013

Applicants apply personally to the Admission committee of NULESU the following documents:

- an application form, which includes the program and the form of training ;
- a certificate of complete secondary education (or a document of education and qualification level obtained) and its appendix, original or certified copies at the applicant's choice;
- a medical certificate (form 086-O (original or certified copy));
- 6 colour photos 3x4 cm;
- certificates of the Ukrainian Center for Educational Quality Assessment (or a certified copy) issued in 2008-2013;
- a copy of the identification number (3 copies);
- a copy of passport (1st, 2nd pages and permanent adress 3 copies).

A Ukrainian passport or the other document identifying a person and citizenship (birth certificate for persons who do not have passports yet), military ID (certificate of detachment to the recruiting office), document of education and appendix; certificate(s) of Ukrainian Center for Educational Quality Assessment, a medical certificate (form 086-O). Applicants with completed secondary education may submit applications for no more than 3 bachelor's programs.

### List of competitive disciplines in the certificates of the Ukrainian Center for Educational Quality Assessment (entrance examination)

Program	List of competitive disciplines (entrance examination)		
	1	2 (Major disciplines)	3
Automation and computer integrated technologies; Energetics and electro technical systems in agriculture computer sciences; Processes, machinery and equipment of agroindustrial production; Transport technologies	Ukrainian Language and Literature	Mathematics	Physics or Foreign language
Construction; Woodworking technology; Electrical engineering and technology; Machine building			Physics or Chemistry
Geodesy, cartography and Land management; Economics of enterprise; Economic cybernetics; Marketing; Accounting and audit; Finance and credit			The History of Ukraine or Geography
Ecology, environmental protection and balanced natural resources application			Chemistry or Geography
Forest and park-gardening			Biology or Foreign language
Management			Geography or Foreign language
Food technology and engineering		Biology	Chemistry or Foreign language
Agronomy; Plant protection			Chemistry or Mathematics
Veterinary medicine*			Chemistry or Physics
Water bioresources and aquaculture			Mathematics or Geography
Technology of production and processing of animal products			Mathematics or Physics
Jurisprudence			The History of Ukraine
Social pedagogy		Chemistry	Foreign language or World Literature
Biotechnology		English	Biology or Mathematics
Philology (English-Ukrainian translation)		German	The History of Ukraine or World Literature
Philology (German-Ukrainian translation)			The History of Ukraine or World Literature

Competitive score is calculated by adding the scores of certificate of competitive disciplines (entrance examination), average score of the certificate (appendix to a document) of completed secondary education and extra scores required by the rules of admission at NULES of Ukraine.

Minimum scores number of competitive disciplines in the certificate of the Ukrainian Center for Educational Quality Assessment that allows participation in the competition is: in major disciplines - not less than 140 scores, in non-major disciplines - not less than 124 scores. By the decision of the admission committee applicants are allowed to participate in the competitive selection having submitted a certificate of the Ukrainian Center for Educational Quality Assessment with scores in one of the non-major comprehensive disciplines below 124 points, if he/she has no less than 170 scores in major disciplines.

\*\* for applicants who are permitted to take entrance exams at NULES of Ukraine by 20.07.2013

\*\*\*for applicants who are permitted to take entrance exams at NULES of Ukraine by 12.08.2013

## Organization of the academic process

The forms of studying at the National University of Life and Environmental Sciences of Ukraine are: full-time, extra-mural and external

### Terms of full-time studying for different education and qualification levels (EQL)

<b>EQL Master</b> 1-1,5 years	<b>EQL Specialist</b> 1 year	<b>EQL Master p</b> 1-1,5 years	<b>EQL Specialist</b> 1 year
<b>EQL Bachelor</b> 4 years		<b>EQL Bachelor</b> 2-3 years	
<b>The completed secondary education</b> (11 years)		<b>The basis of EQL of Junior specialist</b> (4 years)	

According to the Law of Ukraine "On Higher Education" NULESU provides a degree system of higher education " Junior specialist - Bachelor - Specialist - Master" (in the basic Institution of University - "Bachelor-Master").

The regulatory and legal framework of the academic process at the University meets the Requirements of the Laws of Ukraine "On Education", "On Higher Education", state higher educational standards, "Regulations on the Organization of the Academic Process in Higher Education", educational and professional training programs for specialists in relevant professional fields and qualification levels.

The academic process at the University is provided in the form of academic lessons, individual tasks, students' independent work, practical training and examination sessions

One of the features of the academic process at NULESU is the implementation of a credit-modul system for all training courses and programs of EQL "Bachelor", "Specialist" and "Master", which are regulated by the "Regulations on Credit-Modular System of Training in NULES of Ukraine".

The total student workload (classroom and out classroom work, independent study, etc.) is measured in hours and credits of the European Credit Transfer System (ECTS).

The university provides rating assessment of the students' knowledge in academic disciplines, project works, practice reports (academic and practical), state exams, diploma projects according to a 100-scores scale.

**Table. The ratio between the national and ECTS marks and student ratings**

National	ECTS	Determination of ECTS		Student rating, scores
Excellent	A	EXCELLENT -	excellent with only few mistakes	90 - 100
Good	B	VERY GOOD -	above the average level with some mistakes	82 - 89
	C	GOOD -	in general correct work with a number of gross mistakes	74 - 81
Satisfactory	D	SATISFACTORY -	good, but a lot of mistakes	64 - 73
	E	SUFFICIENTLY -	satisfies minimum criteria	60 - 63
Non-satisfactory	FX	NON-SATISFACTORY - must work to pass exam		35 - 59
	F	NON-SATISFACTORY must work very hard		00 - 34

Students who have a higher rating for the period of study, are provided with advantages for the following issues:

- Referral to work after NULES of Ukraine;
- Accommodation in a hostel, and scholarships;
- Choice of the place for academic and training practices;
- Permission to study according to an individual curriculum and schedule;
- Transfer to new specializations;
- Selection for internship abroad;
- Competitive selection for further education after bachelor programs .



## *International cooperation*

National University of Life and Environmental Sciences of Ukraine has been engaged in international activities since 1950.

During this period more than 3000 foreign students from 89 countries have graduated with master degrees in various fields of agriculture, forestry, fishery and veterinary medicine at NULES (Ukraine). More than 500 of them continued their education as postgraduates and doctoral students and have obtained scientific degrees of doctors and PhDs.

Fruitful cooperation with world leading universities contributed to the reform of the NULESU education system adapting it to market economy and world universities requirements. Two U.S. universities (Iowa -1996 and Louisiana -1998), the University of Ghent (Belgium, 2002) and Humboldt University (Germany, 2002) recognized educational system of NULES of Ukraine as the one that complies with their requirements. Within the period from 2005 to 2008, NULESU signed Memoranda of double diploma with universities: the University of Wageningen (Netherlands) in the field of environmental sciences, bio-economy, biotechnology; Humboldt University - Master's program for process control and quality management; Tokyo University of Agriculture - program for international biobusiness; University of Applied Sciences Weihenstephan (Germany) - the MBA program and the University of Applied Sciences Anhalt (Germany) - MFA and MBA programs.

Iowa State University, NULESU and Humboldt University (Germany) initiated the foundation of GCHERA (Global Consortium of Higher Agricultural Education and Research) at the international conference devoted to the 100th anniversary of NAU (now NULES of Ukraine) in 1998. Rector of NULESU, Academician D. Melnychuk, who was the President of the Consortium from 2001 to 2003, is currently a member of the Executive Committee and Honorary President of the Consortium. Since November 2009, the president of GCHERA is Philippe Choquet, CEO of the Polytechnic Institute of LaSalle Beauvais (France).

At present, NULESU maintains international contacts and cooperation with about 90 universities and research institutions around the world, including: 54 - in Europe, 18 - in America (15 - in the USA), 16 - in Asia.

Every year about 300 teaching staff and researchers of NULESU take part in international conferences, symposia, seminars, workshops. Some scientists are invited to give lectures by partner universities. Cultural students and teachers exchange programs with Belgian, German, Polish and USA universities were organized. Every year the University holds more than 50 international conferences, seminars and workshops. About 100 undergraduate and graduate students of NULESU obtain training at leading universities in the U.S. and Western Europe.

### ***Scientific library of university***

The main task of the scientific library of University is to develop library collections to meet the needs of users in various specializations. Diversified Library collection numbers more than one million copies of national and foreign books, including rare books (since 1779), abstracts of theses (since 1950), theses (since 1946), The Library annually subscribes to more than 300 titles of journals and more than 50 different newspapers.

The collection of rare, valuable documents contain more than 3500 units. The real gems of the fund are rare and unique books such as: "The News of Petrovsk Arable Farming and Forest Academy" (1779), "Russian Chronicle by Nikonov list" (p. 3, 6, 7, 1786-1791), "Archive of Veterinary Sciences", "Forest Journal" (1873), etc.

The Information about the Scientific library, including its resources (electronic catalog, bibliographies, portal AGORA, URAN) can be found on the library site: <http://library.nubip.edu.ua>. The library provides access to international databases (EBSCO, AGORA).

Since 2006 the Scientific Library has become a depository library of FAO (FAO - Food and Agricultural Organization) in Ukraine. The Depository fund contains 700 documents in English, including analysis, statistical compilations, reports compiled in the electronic catalog of the scientific library. Some materials come with CD-ROMs. Literature of FAO is stored in the central library.

The Scientific Library of the University is equipped with modern computers and devices: 71 computers, 13 printers, 2 scanners, a powerful database server. The interior of the reading rooms creates the atmosphere of comfort and convenience for readers



### ***Information and telecommunication facilities***

The implementation of new information and communication technologies plays important role in the academic process at the university. Computer networks of basic institution of the University and branches of NULES of Ukraine are connected into a single information system, which includes more than 2500 computers, dozens of servers, 14 sites of relevant departments of the University (the site of NULES of Ukraine: [www.nubip.edu.ua](http://www.nubip.edu.ua)).

NULESU has several resource platforms that provide e-learning and scientific content:

- Educational and information portal on the platform of e-learning Moodle (<http://moodle.nauu.kiev.ua>), its e-learning courses provide students with the necessary information, organize practical independent work as well as the system of assessment and control (essays and tests), the discussion of problems on forums, in chat rooms, etc.;
- Institutional Repository of NULES of Ukraine (<http://elibrary.nubip.edu.ua>) contains full-text electronic versions of references and textbooks, electronic scientific journals, training videos, master's thesis and other electronic educational resources;
- Video Portal (<http://openmeetings.nubip.edu.ua>) provides interactive distance online classes for full-time and extra-mural students studying in regional universities, education and counseling centers of NULESU;
- Multimedia room of scientific library with access to electronic resources FAO (AGORA) and network URAN.



## Student self-governing

Student organization is a voluntary student self governing association of subdivisions and basic institution of the University, which includes Student Organization, Student Primary Trade Union Organization of NULESU, Joint Committee of Student Hostels Councils.

Student Organization is an advisory body to the university administration, aimed at attracting young people to social activities. Student organization is independent from the influence of political, religious and civic associations or organizations. Student Organization of NULESU is a school of leadership, a form of self-education of youth, training of future leaders, organizers and educators. It works closely with a wide variety of youth organizations.

Student Organization of NULESU includes faculty student organizations, student hostel councils and clubs.

Clubs and student groups:

- Club of Experts of NULES
- Scientific Club
- Travel Club
- Media Center "FOCUS"
- Sport Club
- Social Center
- University guard of NULESU



## Department of Culturology

In order to engage gifted students to develop their talents the University organized art groups and societies.

Ensembles and groups:

- Folk Song and Dance Ensemble "Kolos"
- Folk Song
- Folk Dance
- Ensemble of Folk Instruments
- Folk theater "Berezil"
- Vocal ensemble "Octava"
- Academic solo singing
- Academic Choir
- Ballroom Dance Ensemble "Charivnist"
- Choreographic ensemble "Divoche suziria"
- Vocal-instrumental ensemble "Octava"
- Music chamber "Zolota Lira"
- Club of theater lovers "Melpomene"
- Art studio "Holosiivska palitra"
- Club "Decorative floristics"
- Press-studio "Ideal".



Folk collectives represented Ukrainian culture in the United States, Belgium, Denmark, Slovenia, Belarus and Russia. Representatives of other universities are often invited to university art festivals and holidays.

## ***Department of Military Training***

Department of Military Training is a unit of NULESU.

Currently, the Department of Military Training trains students in six military specialties:

- Military use of mechanized formations and units;
- Military use of armoured units, military units;
- Use of vehicle formations and units;
- Maintenance and repair of machines of armoured vehicles;
- Maintenance and repair of electrical and special equipment and automation of armoured vehicles;
- Radiology and veterinary toxicology.

The forms of training: training sessions, self-study, practical training, controlling activities with scientific and teaching staff.

Department of Military Training has a strong educational facilities, including 50 metres long shooting range; two computer labs equipped with modern teaching aids (interactive whiteboards, multimedia systems); rooms for tactical, fire and technical training; maintenance station, field veterinary laboratory; library; marching parade.



## ***Department of Physical Training***

The university provides sports facilities: a football stadium for 5,000 spectators, athletic running track, sports building with five gyms (for games, karate, weightlifting, wrestling, outdoor grounds for basketball, handball, playgrounds for mini football with artificial turf, tennis courts).

The university students are engaged in 16 sports sections.

Every year the University organizes sport competitions among students of the Institutes, the the staff of the Institute, the hostels residents of NULESU in 13-18 kinds of sports: basketball (men and women), volleyball (women and men), football (men), weightlifting, athletics, racing, weightlifting, wrestling, table tennis, hiking, orienteering, ski racing etc.

Students, teachers, university employees have an opportunity to go in for various sports under the supervision of the Department of Physical Training staff, health groups, tourist club "Leopard". In addition, there is a recreation and sports center with 12 regular groups of students, teachers, residents of Golosiievo district.



SPECIALTY CODE

**6.090101**

AMOUNT OF ECTS CREDITS

**240**

FORM OF STUDY/TRAINING PERIOD, YEARS

**FULL-TIME****4****EXTRA-MURAL****5**

Bachelor training is conducted (licenced number: full-time / extra-mural) in:

- Basic institution of NULES of Ukraine (Kyiv) (300 / 345);
- "CATU" Southern Filial of NULES of Ukraine (Simferopol) ( 180/180);
- " Nemishaievo Agricultural College" (60/ -);
- "Zalishchyky College" (50/ 50);
- "Crimean Agroindustrial and Industrial College" (25/25);
- "Bobrovytsia TICC" (-/20);
- "Mukacheve Agricultural College of Economics and Management TICC" (-/25).

EDUCATION AND RESEARCH INSTITUTE

**PLANT SCIENCE, ECOLOGY AND BIOTECHNOLOGIES**

FACULTY

**AGROBIOLOGY**

SPECIALITY

**AGRONOMY**

FIELD OF KNOWLEDGE

**AGRICULTURE AND FORESTRY****Annotation of speciality**

The Bachelor program aims to prepare specialists who are able to apply adaptive technology of crops growing, to ensure their agricultural, energy, economic and environmental efficiency. Bachelor training is focused on current and future development directions in horticulture and grape growing, agrochemical provision and modern technological processes in planting, analytical and practical use of modern methods of soil survey, the ways of rational use and renewal of soil fertility.

**Structure of the curriculum**

The curriculum is composed on the basis of educational training programs of EQL "Bachelor" in the field of "Agronomy".

A regulatory component of the curriculum consists of 3 cycles of humanitarian, social and economic sciences; mathematical and natural sciences, professional and practical training, 5634 hours totally, 65 ECTS credits .

An optional component of the curriculum consists of the elective subjects chosen by University 1980 hours and chosen by the students - 1026 hours; 3006 academic hours. totally, 83.5 ECTS credits.

The total number of hours according to the educational and professional program is 8640, 240 ECTS credits.

The curriculum includes:

- 4 course papers in the disciplines: pedology with the basics of geology, agronomy, cultivation, crop growing
- 10 training practices: academic (botany, tractors and automobiles, agricultural machinery, pedology with the basics of geology, agriculture, agronomy, vegetable growing, fruit growing, crop growing), industrial practice (agronomy).

The state certification involves passing the state exams, writing and defending bachelor theses

**Practical Training Places**

NULESU subdivisions: "Agronomy Research Station," "Velykosnitynka Training and Research Farm named after Muzychenko ", "Vorzel" Training and Research Farm ", leading agrarian enterprises of different forms of ownership.

**Proposed themes for bachelor theses**

1. Analysis of crop technology and crop management on farms of various specializations.
2. Agro-economic analysis of farming systems (and its parts) on a particular farm.
3. The technology of selection process, economic and biological characteristics of different sorts of crops



QUALIFICATION OF GRADUATES

**BACHELOR TECHNOLOGIST IN AGRONOMY**

SPECIALITY CODE

**6.090101****Competencies acquired**

**Theoretical (the humanities, social and economic knowledge):** basic knowledge in philosophy, politology, sociology, culturology, that contribute to the overall development of political culture and activity, the formation of national dignity and patriotism, socialization, commitment to ethical values, knowledge of national history, economics and law, understanding of cause and effect relationship of social development and the ability to use them in a professional and social activity; the use of modern scientific, technical and cultural achievements of world civilization.

**Fundamental (mathematical and natural sciences):** basic knowledge of the fundamental areas of mathematics, using mathematical apparatus in agronomical industry, ability to use mathematical methods in agronomy, basic knowledge of computer and information technology, skills in using software tools and computer networks, ability to create databases and use internet resources, basic knowledge of physics, chemistry, botany, plant physiology necessary for mastering general and specialized professional disciplines.

**Professional and practical:** ability to use professionally oriented knowledge for planning and implementing farming practices, realization of plant protection systems, plant introduction for sustainable agricultural production, ability to combine plant and animal sectors to achieve the highest economic effect in farming, ability to identify and use innovative techniques and measures to obtain high quality, ecosafe, attractive agricultural products in the process of production, storage and distribution; ability to use professionally oriented scientific knowledge to study and carry out research in agronomy.

**Academic rights of graduates**

Graduates have a right to apply for master programs in related specialties, starting from the second year of study:

8.09010101 - "Agronomy"

8.09010102 - "Agrochemistry and Soil Science"

8.09010104 - "Horticulture and Viticulture"

8.09010105 - "Selection and Genetics of Crops"

or specialties in field of study "Specific Categories":

8.18010010 - "Quality, Standardization and Certification"

8.18010018 - "Administration Management"

8.18010020 - "Management of an Educational Institution"

8.18010021 - "Pedagogy of Higher School"

**Employment**

According to State Classifier -003:2010, graduates can work in the following fields of economy: agriculture and forestry, crop production, crop cultivation, technical and other crops, vegetables, decorative planting and nursery production growing, growing fruit, berries and other plants for the production of beverages and spices, mixed agriculture, services in crop growing and animal husbandry; landscape design. A specialist has skills to do the work listed in Profession Classifier SC 003-10, and may occupy the following positions: an agronomist, a department agronomist (brigade, agricultural station, work shop), a technologist in agronomy.



SPECIALTY CODE

**6.090105**

AMOUNT OF ECTS CREDITS

**240**

FORM OF STUDY/TRAINING PERIOD, YEARS

**FULL-TIME****4****EXTRA-MURAL****5**

Bachelor training is conducted at the Basic institution of NULES of Ukraine(Kyiv):  
(licensed number:  
full-time -/extra-mural): (100/75);  
"Crimean Agricultural  
and Industrial College" (25/-);

EDUCATION AND RESEARCH INSTITUTE

**PLANT SCIENCE, ENVIRONMENT AND BIOTECHNOLOGIES**

FACULTY

**PLANT PROTECTION**

SPECIALITY

**PLANT PROTECTION**

FIELD OF KNOWLEDGE

**AGRICULTURE AND FORESTRY****Annotation of specialty**

Bachelor training in the area of plant protection is essential for work in state and district inspections of plant protection and plant quarantine services, service forecast of plant protection. Specialists in "Plant Protection" elaborate systems of protective measures against harmful organisms. They should know methods of diagnosis of diseases, identification of pathogens, determine the species composition of herbivores, entomophagous and weeds, know their biology and ecology, study the economic thresholds of harmfulness and forecast appearance of pests and diseases. These types of work are performed according to the laws of Ukraine "On Plant Protection", "On Plant Quarantine" etc.

**Structure of the curriculum**

The curriculum is composed on the basis of educational and professional training programs of EQL "Bachelor" in the field of "Plant Protection".

A regulatory component of the curriculum consists of 3 cycles of humanitarian, social and economic sciences, mathematical and natural sciences, professional and practical training, 5616 hours totally, 156 ECTS credits .

An optional component of the curriculum consists of elective subjects chosen by University 1926 hours, and 846 hours chosen by the student; 2772 hours totally, 77 ECTS credits.

The total amount of hours for the educational and professional program is 8640, 240 ECTS credits.

The curriculum includes: 6 course papers in "Herbology", "General Phytopathology", "General Entomology", "Farm Entomology", "Agricultural Phytopathology", "Chemical protection of plants".

12 training practices:

1st year: "Agrozoology", "Botany";

2nd year: "Agricultural Machinery", "Herbology", "Tongs, rodents, nematodes," "Total Phytopathology", "General Entomology";

3rd year: "Agricultural Entomology", "Agricultural Phytopathology", "Plant chemical protection", "Principles of plant quarantine", "Biological Plant Protection"

3rd year: practice - 8 weeks.

State certification involves passing the state exams, writing and defending bachelor theses.

**Places for practical training**

Training and research farms of NULESU, scientific and research institutions of NAASU, state quarantine inspections and its regional branches, leading firms and companies that manufacture and practise crop protection: Syngenta, "Agro-Soyuz" etc.

QUALIFICATION OF GRADUATES

**BACHELOR INSPECTOR  
IN PLANT PROTECTION**

SPECIALITY CODE

**6.090105****Competencies acquired:**

**Professional and practical:** ability to apply knowledge and skills of taxonomy, phylogeny and classification of insects to forecast their reproduction, to develop different forecasts based on phenology of herbivores; to apply knowledge about the characteristics of propagation, ecological and biological characteristics of pests quarantine to prevent their penetration on the territory of Ukraine, to limit their spread, examination and decontamination of quarantine products, biology of weeds and methods of pollution, evaluation of soil and crops in order to develop protective measures, ability to apply knowledge of plants immunity to create varieties and hybrids of agricultural plants resistant to pests, pesticide application technology, and the development of chemical plant protection measures against pests of crops and rules of their application.

**Academic rights of graduates:**

Graduates have a right to apply for master program in related Bachelor specialties, starting from the second year of study:

8.09010501 - "Plant Protection"

or specialties in the field of study "Specific Categories":

8.18010010 - "Quality, Standardization and Certification"

8.18010018 - "Administration Management"

8.18010020 - "Management of an Educational Institution"

8.18010021 - "Pedagogy of Higher School"

**Employment:**

The Classifier of occupations in Ukraine DK 003-95 (2006) for graduates of EQL "Bachelor" defines qualification "Inspector of Plant Protection" (code CP 3212). Graduates can be employed as experts in pest control services, research institutions, control and toxicological laboratories and bio-tech plant protection in farms of different forms of ownership or continue to do Master course.

**Proposed themes for bachelor theses**

1. Biological features and harmful effect of insects on agricultural crops.
2. Species composition of phytophagous mites in fruit plantations.
3. Phenology of entomopathogenic nematodes.
4. Features of root rot of cereals.
5. Complex action of herbicides on agricultural crops.
6. Mouse-like rodents - pests of agricultural products, their species composition, their harmful effect.
7. Distribution and biological characteristics of nematodes on agricultural plants.



SPECIALTY CODE

**6.051401**

AMOUNT OF ECTS CREDITS

**240**

FORM OF STUDY/TRAINING PERIOD, YEARS

**FULL-TIME****4****EXTRA-MURAL****5**

Bachelor training is conducted at the Basic institution of NULES of Ukraine (Kyiv) (licensed number: full-time - 50 / extra-mural - 50)

EDUCATION AND RESEARCH INSTITUTE

**PLANT SCIENCE, ECOLOGY AND BIOTECHNOLOGIES**

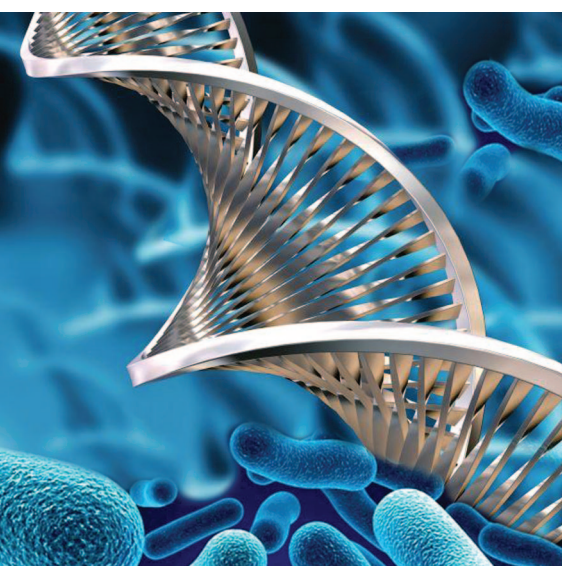
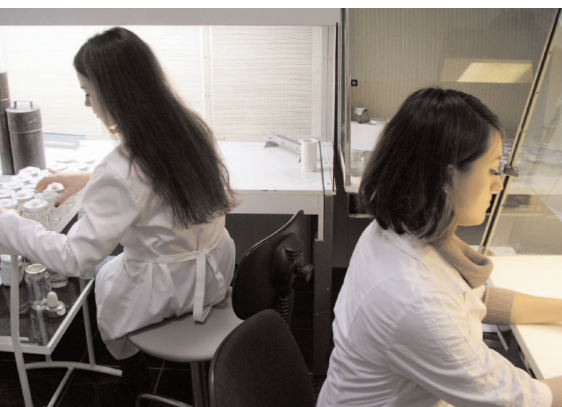
FACULTY

**BIOTECHNOLOGY**

SPECIALITY

**BIOTECHNOLOGY**

FIELD OF KNOWLEDGE

**BIOTECHNOLOGY**

#### Annotation of specialty

Training of specialists in biotechnology includes 65 disciplines in three cycles. Specialists get a good basic knowledge of chemistry, study over ten chemical disciplines. The feature of this training is a big diversity of technical disciplines. Graduates get special knowledge at the department of environmental biotechnology and biodiversity. A cycle of specialized disciplines include cell biology, general microbiology and virology, biochemistry, immunogenetics, bioengineering, molecular biology. The curriculum of students in "Biotechnology" provides successful proportion between knowledge of engineering, chemical and biological sciences for professionals with qualifications "expert in biotechnology."

#### Structure of the curriculum

The curriculum is composed on the basis of educational training programs of EQL "Bachelor" in the field of "Biotechnology".

The regulatory component of the curriculum consists of 3 cycles of humanitarian, social and economic sciences, mathematical and natural sciences, professional and practical training, 2808 hours totally, 78 ECTS credits.

The optional component of the curriculum consists of elective subjects chosen by University - 2340 hours and 756 hours - chosen by students; 3096 hours totally, 86 ECTS credits.

The total number of hours for the educational and professional program is 8640, 240 ECTS credits.

The curriculum includes:

- six course papers (projects) in the disciplines: analytical chemistry, ecology viruses, processes and devices of biotech industries, industrial biotechnology, basic plant biotechnology, economics and organization of biotech industries;
- nine training practices: academic in general biotechnology, general microbiology and virology, chemical analysis, instrumental methods of analysis of processes and apparatus of biotechnology industries, general biology, industrial biotechnology, engineering and computer graphics production.

State certification involves passing the state exam, writing and defending bachelor theses.

#### Practical Training Places

Practice of students is conducted in educational laboratories, problem research laboratory, phytovirology and biotechnology laboratory, interinstitute laboratory "Bioconversion in agriculture," NNVL "Agrobiotechnology of fermentation products", subdivisions of NULESU, companies that fit the field of training (specialty) etc.

QUALIFICATION OF GRADUATES

**BACHELOR SPECIALIST  
IN BIOTECHNOLOGIES**

SPECIALITY CODE

**6.051401****Competencies acquired**

**Theoretical (the humanities, social and economic sciences):** constructive management of feelings, social and civic competences, cultural awareness and expression.

**Fundamental (mathematics and natural sciences):** knowledge of a living matter, its amount and functions, biosphere and its borders, the flow of energy in the food chain, cycling of matter in biosphere, computer methods of forming patterns for predicting biotech processes and determining the level of reliability of conclusions derived from a mathematical model in relation to real conditions, peculiarities of functioning of the producers of biologically active substances for livestock and crop growing, structure of prokaryotes vectors, principles of DNA transformation and creating new varieties, etc. Knowledge about the structure, functions of plants and direction of their morphological evolution.

**Professional and practical:** knowledge about creating of transformed plants and microorganisms as part of biotechnological process; ability to create and grow new forms of plants, to provide new bio-technologies in farming, veterinary medicine and planting, to simulate the processes of biotechnological production, to make plans and choose specific ways to implement genetic engineering research relative to the desired gene and its DNA.

**Academic rights of graduates**

Graduates have a right to apply for master programs in related bachelor specialties, starting from the second year of study:

8.05140105 - "Environmental Biotechnology and Bioenergy"

or specialties of the field of study "Specific Categories":

8.18010010 - "Quality, Standardization and Certification"

8.18010018 - "Administration Management"

8.18010020 - "Management of an Educational Institution"

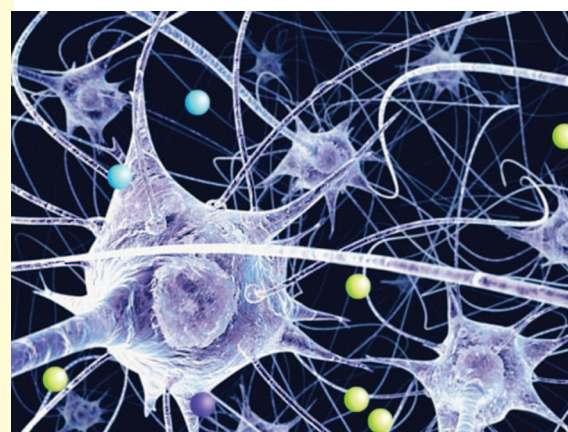
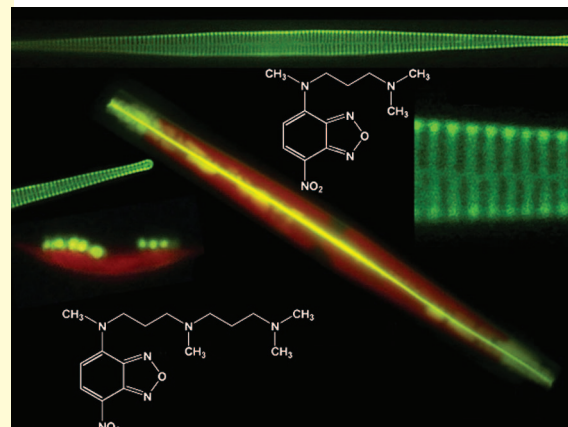
8.18010021- "Pedagogy of Higher School"

**Employment**

Graduates can be employed in the food, chemical and biotechnological industries (KTC JSC "Slavutich", JSC "Obolon", OJSC "Stirolbiotech" etc.), in engineering and designing organizations, enterprises that obtain bioenergy (biogas, biodiesel) and recycle solid and liquid waste, organizations of environmental and hygienic control, certification and standardization, institutes and institutions of the Ministry of Education and Science of Ukraine, Ministry of Ecology and Natural Resources of Ukraine, the National Academy of Sciences of Ukraine, specialized bodies of public administration.

**Proposed themes of bachelor theses**

1. Obtaining cold-resistant lines of rape (*Brassica napus* L) in culture in vitro.
2. Biotechnological principles of production and use of entomophagous on maize crops.
3. Granulation of biomass in industrial production technologies.
4. Obtaining virus-free planting material by biotechnology methods in vitro.
5. Identification and differentiation of plant genotypes using DNA markers.
6. Development of molecular biological test systems for the diagnosis and identification of plant viruses.
7. Justification of technological process and equipment modes for producing biogas, biodiesel, etc.



SPECIALTY CODE

**6.040106**

AMOUNT OF ECTS CREDITS

**240**

FORM OF STUDY/TRAINING PERIOD, YEARS

**FULL-TIME****4****EXTRA-MURAL****5**

Bachelor training is conducted (licensed number: full-time / extra-mural):

- at the Basic Institution of NULES of Ukraine (Kyiv) (100 / 100);
- "Boyarka College of Ecology and Natural Resources" (1st year - short period of training, 2nd year - for groups with instruction in Ukrainian);
- "Berezhany Agrotechnical Institute" (50 / 50)

EDUCATION AND RESEARCH INSTITUTE

**PLANT SCIENCE, ECOLOGY AND BIOTECHNOLOGIES**

FACULTY

**ECOLOGY AND SUSTAINABLE DEVELOPMENT**

SPECIALITY

**ECOLOGY, ENVIRONMENTAL PROTECTION AND SUSTAINABLE DEVELOPMENT**

FIELD OF KNOWLEDGE

**NATURAL SCIENCES****Annotation of speciality**

Highly skilled specialists in environmental protection, environmental control of natural and anthropogenically changed (agro-, urbo-, techno-) ground and water ecosystems, sustainable environmental development, implementation of ecological safety technologies, estimation of their impact on the environment and society, environmental management in the areas of agriculture and natural systems are trained to obtain the speciality 6.040106 "Ecology, Environmental Protection and Balanced Nature Management".

**Structure of the curriculum**

The regulatory component of the curriculum of training programs of EQL "Bachelor" in the field "Ecology, Environmental Protection and Balanced Nature" consists of 3 cycles of humanitarian, social and economic sciences, mathematical and natural sciences, professional and practical training, 4698 hours totally, 130.5 ESTC credits.

The optional component of the curriculum consists of elective subjects chosen by University 2250 hours and 756 hours chosen by students ; 3006 hours totally, 83.5 ESTC credits.

The total number of hours for the educational and professional program is 8640, 240 ESTC credits.

The curriculum includes:

- six course papers in the disciplines: general ecology, environmental monitoring, integrated with chemistry, radiobiology and radiology, modeling and prediction of environmental conditions, environmental impact assessment;
- three types of practices: training in general ecology (biology I-III, general ecology, informatics and systemology, soil science, hydrology, chemical analysis, geology and the basics of geomorphology, meteorology and climatology) and landscape-ecological blocks (topography and the basics of cartography, landscape ecology, radiobiology and radiology, principles of agricultural ecology), research workshop (agrosphere ecology, landscape ecology), industrial practice (undergraduate).

State certification involves passing the state exam, writing and defending bachelor thesis.

**Practical Training Places**

At NULESU subdivisions "Agronomy Research Station", "Boyarka Forest Research Station", "Velykosnitynka Training and Research Farm named after Muzychenko", "Vorzel" Training and Research Farm", "Training and Research Poultry Breeding Plant named after Frunze, "Experimental Farm "Communar", SRC of biology and ecology of subtropical crops and landscape, Yalta, Crimea.

QUALIFICATION OF GRADUATES

**BACHELOR ECOLOGIST**

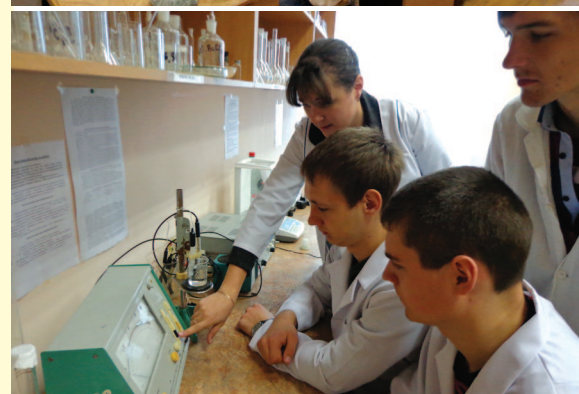
SPECIALITY CODE

**6.040106****Competencies acquired**

**Theoretical (the humanities, social and economic sciences):** proficient Ukrainian language skills, ability to apply social and cultural competences, knowledge of basic economic laws, the processes of social and political history of Ukraine in professional activity.

**Fundamental (mathematical and natural sciences):** knowledge of the system "man-nature", ability to build harmonious relations with the environment, ability to develop and use mathematical skills, computer skills; knowledge of living matter, its function and amount, the biosphere and its borders, the flow of energy in the food chain, cycling of substances in the biosphere, specific knowledge of the relationship of organisms and environment, their existence in different geographical areas on the ground and aquatic ecosystems.

**Professional and practical:** specific knowledge about the impact of different industries on the environment and ways of greening, the processes of urban settler areas that shape environmental conditions and characteristics of ecosystem functioning under the influence of residential areas, numerous simulation scenarios of various natural and anthropogenic processes, forecasting and development recommendations for sustainable environmental development of society and the biosphere, planning, researching, monitoring, forecasting of environmental impact, control and information.

**Academic rights of graduates**

Graduates have a right to apply for master programs, related to the curriculum of bachelor programs, starting from the second year of study:

8.04010601 - "Ecology and Environment" or specialties in the field of study "Specific Categories":

8.18010010 - "Quality, Standardization and Certification"

8.18010018 - "Administration Management"

8.18010020 - "Management of an Educational Institution"

8.18010021 - "Pedagogy of Higher School"

**Employment**

Graduates can be employed as ecologists (according to SC-003: 2010) at botanical gardens, nature reserves, research institutions, agricultural and industrial enterprises, government regional environmental agencies: Environmental Inspectorate and the Inspectorate of Agriculture, State Agency of land, water and forest resources, sanitary and epidemiological service of Ukraine, Research Institutes of NAS and NAAS of Ukraine, etc.

**Proposed themes for bachelor theses**

1. Analysis of ecological technologies measures for agricultural products and raw materials.
2. Agroecological analysis of the tillage, cultivation technologies of agricultural crops fertilization, protection and biostimulation of plants.
3. Assessment of the effect of environment on soil and water resources, and agricultural areas.

SPECIALTY CODE

**6.090102**

AMOUNT OF ECTS CREDITS

**240**

FORM OF STUDY/TRAINING PERIOD, YEARS

**FULL-TIME****4****EXTRA-MURAL****5**

Bachelor training is conducted  
(licensed number:  
full-time / extra-mural)  
at basic institution  
of NULES of Ukraine(125 / 125)

EDUCATION AND RESEARCH INSTITUTE

**LIVESTOCK AND WATER BIORESOURCES**

FACULTY

**TECHNOLOGY OF PRODUCTION  
AND PROCESSING OF ANIMAL PRODUCTS**

SPECIALITY

**TECHNOLOGY OF PRODUCTION  
AND PROCESSING OF ANIMAL PRODUCTS**

FIELD OF KNOWLEDGE

**AGRICULTURE AND FORESTRY****Annotation of speciality**

Livestock is an important sector of agriculture. It influences market provision with high-calorie foods - meat, dairy products, eggs etc. Livestock provides raw material for food and light industry (meat, milk, leather, wool, wax, feathers, etc.), and to produce medications. Livestock is closely connected with land-cultivation by supplying organic fertilizers.

**Structure of the curriculum**

The curriculum is composed on the basis of educational and training program of EQL "Bachelor" in the field of "Technology of Production and Processing of Animal Products."

A regulatory component of the curriculum consists of 3 cycles:

- humanitarian and socio-economic sciences,
- mathematical and natural sciences,
- professional and practical training.

1476 hours totally, 41 ESTC credit.

An optional component of the curriculum consists of elective subjects chosen by University 576 hours, and 288 hours chosen by students, 864 hours totally, 24 ESTC credits.

The total number of hours for the educational and professional program is 8640, 240 ESTC credits.

Curriculum includes:

- six course papers (projects) in the disciplines: engineering and construction of companies in the manufacture and processing of animal products, mechanization of processes in livestock feeding, production technology of meat and milk products, production technology of poultry products.
- three training practices: 2 academic practices in the 2nd and 4th semesters and 1 production practice in the 6th semester.

State certification involves passing the state exam, writing and defending bachelor theses.

**Practical Training Places**

The faculty focuses on close interaction and cooperation with the educational and research farms of the University and advanced scientific establishments and agricultural enterprises, such as "Agronomy Research Station," "Velykosnitynka Training and Research Farm named after Muzychenko"; "Vorzel" Training and Research Farm", "Agroprime" pig breeding complex, "Kalyta" agroplant, "Agro-Soyuz", Dibrivsky stud farm No.62, "Shakhtar" stud farm, "NIBULON" joint venture, "Nina" FG, "Medovi polia" PC, "Pribuzhski Medobory" bees nursery, "Med Podillia" JSC, "Ptakhofabryca Kyivska" JSC JSC, "Nadiya" CJSC, "Peremoga Nova" SE, "Complex Agromars" CJSC etc.



QUALIFICATION OF GRADUATES

## TECHNOLOGIST IN PRODUCTION AND PROCESSING OF LIVESTOCK PRODUCTS

SPECIALITY CODE

6.090102

### Competencies acquired

**Theoretical ( the humanities, social and economic sciences):** ability to support sufficient intellectual level required for professional work, to set goals and objectives and ensure efficient and safe performance, to provide safety at work, to use information technology for processing foreign professionally-oriented sources, their use in social and professional spheres;

**Fundamental (mathematical and natural sciences):** ability to use mathematical apparatus to solve theoretical and practical problems in professional activities and to master special subjects, the use of organic, biological, physical and colloid chemistry to master generally accepted occupational disciplines and to solve practical problems of industrial activity, fundamental knowledge of physiology of digestion;

**Professional and practical:** accounting competence, ability to evaluate milk quality, feed, forage and optimum animal nutrition, bio accounting competence, animal nursing skills, artificial insemination and breeding, milking animals, ability to look after animals in laboratories and in production.



### Academic rights of graduates

Graduates have the right to apply for masters programs, related to the curriculum of bachelor programs, starting from the second year of study:

8.09010201 - "Technology of Production and Processing of Animal Products"

or specialties in the field of study "Specific Categories":

8.18010010 - "Quality, Standardization and Certification"

8.18010018 - "Administration Management"

8.18010020 - "Management of Educational Institution"

8.18010021 - "Pedagogy of Higher School"

### Employment

Training and research farms of the University, advanced research institutions and agricultural businesses, such as "Agronomy Research Station," "Velykosnitynka Training and Research Farm named after Muzychenko", "Vorzel" Training and Research Farm, SP "South Crimean sheeping", "Borodino-A" manufacturing enterprise, "Meryno-Zakhid", "Agroprime" pig breeding complex, "Kalyta" SVAT agroplant, "Agro-Soyuz" JSC, Dibrivsky stud farm No.62, "Shakhtar" stud farm, "NIBULON" joint venture, "Nina" FG, "Medovi polia" PC, "Pribuzhski Medobory" bees nursery, "Med Podillia" JSC, "Ptakhofabryca Kyivska" JSC, " Myronivskiy Khliboprodukt "JSC, etc.

### Proposed themes of theses

1. Technology of production of hatching chicken eggs of parent stock cross "Hayseks white" at "Training and Research Poultry Breeding Plant named after Frunze" of NULESU.
2. Technology of production and primary processing of milk at Basic Selection Center of Ukraine
3. Technology of production and primary processing of milk at "Lan- Agro 5" in Khmelnytsky region
4. Characteristics of production process and primary processing of milk at Velykosnitynka Training and Research Farm named after Muzychenko Subdivision of NULESU, Kyiv region
5. Technology of beef production at "Lan- Agro 5" Khmelnytsky region
6. Technology of production of cellular honey in Golosiyivske educational and research apiary
7. Technological evaluation of raising, training and testing of Orlov trotter breed in stud farm "Shakhtar", Donetsk region
8. Technology of growing broiler chicken at "Nova" poultry farm, Cherkasy region

SPECIALTY CODE

**6.090201**

AMOUNT OF ECTS CREDITS

**240**

FORM OF STUDY/TRAINING PERIOD, YEARS

**FULL-TIME****4****EXTRA-MURAL****5**

Bachelor training is conducted  
(licensed number:  
full-time / extra-mural):  
at Basic institution  
of NULES of Ukraine(Kyiv) - (75 / 75)

EDUCATION AND RESEARCH INSTITUTE

**LIVESTOCK AND WATER BIORESOURCES**

FACULTY

**FISHERY**

SPECIALITY

**WATER BIORESOURCES AND AQUACULTURE**

FIELD OF KNOWLEDGE

**FISHERY AND AQUACULTURE****Annotation of specialty**

During the first three years, students study the required regulatory disciplines provided by educational and professional programs, namely humanitarian and professionally oriented disciplines of aquaculture and resources knowing field of study.

The third year of study - students study professionally-oriented disciplines;

the 4th year (EQL "Bachelor") and the 5th year ("Master") - students do advanced professional courses, management courses, disciplines of specializations, and a foreign language. The faculty devotes considerable attention to research work and innovations in fishery, where undergraduates, masters and talented students work. The results of research and innovation in fishing industry are actively implemented into training.

**Structure of the curriculum**

The curriculum is composed on the basis of educational and training programs for EQL "Bachelor" in the field "Water Bioresources and Aquaculture."

A regulatory component of the curriculum consists of 3 cycles:

- humanitarian and socio-economic sciences,
- mathematical and natural sciences,
- professional and practical training,

4968 hours totally, 138 ESTC credits.

An optional component of the curriculum consists of elective subjects chosen by University 2124 hours and 864 hours chosen by students, 2988 hours totally, 83 ESTC credits.

The total amount of hours for the educational and professional program is 8640, 240 ESTC credits.

The curriculum includes:

- 7 course papers (projects) in the disciplines: zoology, hydrobiology, ihtiology, fisheries hydraulic engineering with the basics of geodesy, feeding of fish, aquaculture of natural ponds, aquaculture of artificial reservoirs.
- 5 training practices: academic (introduction to specialty, hydrobotany, zoology, fisheries hydraulic engineering with the basics of geodesy, ichthyology), production practices (breeding and selection of fish, feeding fish, ichthyopathology).

State certification involves passing the state exam, writing and defending bachelor theses.

**Practical Training Places**

NULESU subdivisions, "Kyyivrybhosp" PJSC, "Irkliiv fishpond" GP, "Ukr-ryba" GP, "Velyky Lubin" HH, "Hmelnytskrybhosp" PAT, "Aquariumni tehnologiyi" PE, "Sumyrybhosp" PAT, "Hersonrybhosp" PAT, "Vilshanka" CJSC, "Poltavarybhosp" PAT etc.

QUALIFICATION OF GRADUATES

**BACHELOR TECHNOLOGIST IN PRODUCTION OF AQUACULTURE PRODUCTS**

SPECIALITY CODE

**6.090201****Competencies acquired**

**Theoretical (the humanities, social and economic sciences):** ability to search for new information, proficient Ukrainian language skills, people and communication skills, ability to use information technologies of foreign professionally-oriented sources, to consider processes of socio-political history of Ukraine.

**Fundamental (mathematical and natural sciences):** knowledge of basic and applied branches of mathematics, physics, biophysics, inorganic, analytical, organic, physical and colloid chemistry, hydrobotany, zoology of invertebrates and chordates to use in the profession.

**Professional and practical:** ability to provide the necessary level of labor safety and individual security in dangerous situations, to organize the activity of fishery enterprises in accordance with the safety requirements, up-to-date biochemical principles of fish biochemical structure, their use in fish-farming, advancements in genetics of aquatic organisms and their use in fish-farming, patterns of reproduction, individual development and breeding of fish, their use in fish-farming, basic patterns of selection.

**Academic rights of graduates**

Graduates have the right to apply for master programs, related to the curriculum of bachelor programs, starting from the second year of study:

8.09020101 - "Water Bioresources"

or specialties in the field of study "Specific Categories":

8.18010010 - "Quality, Standardization and Certification"

8.18010018 - "Administration Management"

8.18010020 - "Management of the institution"

8.18010021 - "Pedagogy of Higher School"

**Employment**

According to the State classifier of occupations SC 003-2005, graduates can be employed as: laboratory assistant (biological research), laboratory technicians (biological research) and technician fish breeder, technician in aquaculture production, technologist fish breeder, engineer in aqua-culture production, state inspector of fish protection, ichthyologist, hydrobiologists.

**Proposed themes for bachelor theses**

1. Project of fish coldwater fishery production of rainbow trout;
2. Reproductive technology of carp fish at "Chernihivrybhos" JSC,
3. Breeding and biological justification of the project of fishery in producing Siberian sturgeon;
4. Channel catfish and features of its reproduction in fishery "Chernihivrybhos" PAT,
5. Factory reproduction of bighead carp in the "Chernihivrybhos" PAT
6. Effect of temperature factor on reproductive ability and growth of white cupid in the process of its breeding in ponds of Bilotserkovska hydrobiological station of National Academy of Sciences of Ukraine;
7. Industrial use of fish fauna in Kyiv reservoir;
8. Technological features of obtaining hard-roe of herbivorous fish under the effects of heavy metals in the water pond farms of "Nemishaievo Agrotechnical College" separated subdivision of NULESU.

SPECIALTY CODE

**6.051701**

AMOUNT OF ECTS CREDITS

**240**

FORM OF STUDY/TRAINING PERIOD, YEARS

**FULL-TIME****4****EXTRA-MURAL****5**

Bachelors are trained at the Basic institution of NULES of Ukraine (Kyiv)  
(licensed number of people: full-time -100 / extra-mural 100)

EDUCATION AND RESEARCH INSTITUTE

**UKRAINIAN EDUCATIONAL AND RESEARCH INSTITUTE OF BIORESOURCES QUALITY AND LIFE SAFETY**

FACULTY

**FOOD TECHNOLOGIES AND QUALITY MANAGEMENT OF AIC PRODUCTION**

SPECIALITY

**FOOD TECHNOLOGIES AND ENGINEERING**

FIELD OF KNOWLEDGE

**FOOD INDUSTRY AND AGRICULTURAL PRODUCTION PROCESSING**



#### Annotation of specialty

Successful implementation of practical solutions of important problems of Ukraine in technologies of food raw materials processing is realized by training technologists in the field "Food Technologies and Engineering" EQL "Bachelor". The need for specialists in "Food Technology and Engineering" is determined by increased production of high quality traditional and new food products, the introduction and development of new intensive biotechnologies.

#### Structure of the curriculum

The curriculum is composed on the basis of educational and professional training programs EQL "Bachelor" in the field "Food Technology and Engineering".

Regulatory component of the curriculum consists of 3 cycles:

- humanitarian and socio-economic sciences;
- natural sciences;
- professional and practical training,

6300 hours totally, 175 ECTS credits .

The optional component of the curriculum consists of elective subjects chosen by University - 1368 hours and 972 hours chosen by students; total number of hours is 2340, 65 ECTS credits. The total number of hours of the educational and professional program is 8640, 240 credits ECTS.

The curriculum includes:

- course projects in the disciplines - the basics of animal husbandry, processes and equipment for food production, designing of the basics of CAD, the technology industry, the basics of fishery;
- practical training: academic (in the disciplines - introduction to the specialty, food technologies, food production equipment, animal husbandry basics, fish farming basics, materials science) and work practise (technology industry).

State certification involves passing the state exams, writing and defending bachelor thesis.

#### Practical Training Places

"Hlobynskiy meat factory" Ltd. Poltava region; "Agrofirma Kuibyshevo" JV Poltava region; "Agrofirma Stolychna" LLC Kyiv region; "Kovinko-kovbasy" LLC Vinnytsya region; "ChPK" LLC , Cherkasy; "Gaisyn meat factory" PE Vinnytsya region; "Velykosnitynka Training and Research Farm named after Muzychenko"; "Kozyatynsky meat factory" PAT Vinnytsia region; "Litynysky meat factory" LLC Vinnytsia region; "Polis" LLC Kyiv region; "Boyarski kovbasy" LLC Dnipropetrovsk region; "Skvortsovo" Ltd., etc.

QUALIFICATION OF GRADUATES

## BACHELOR IN FOOD TECHNOLOGY AND ENGINEERING

SPECIALITY CODE

# 6.051701

### Competencies acquired

**Theoretical (the humanities, social and economic sciences):** knowledge about the variety of food, the level and trends of food industry in Ukraine and abroad; composition, properties and quality of plant and animal materials for food technology, advanced flowsheet food industries.

**Fundamental:** complex processing of raw materials in food industries; rational use of secondary resources, knowledge about the structure of food industry, nutritional value and consumer properties of products, their physico-chemical properties, manufacturing technology products of primary and secondary processing of raw materials.

**Professional and practical:** complex processing of raw materials in industry; advanced production methods, products defects, causes and preventive methods; knowledge about the organization of primary production, scientific organization of labor, business plan development and meat production .

### Academic rights of graduates

Graduates have the right to apply for master program in specialties related to bachelor curricula starting from the second year of study:

- 8.05170104 - "Technology of Conservation, Preservation and Processing of Meat"
- 8.05170105 - "Technology of Conservation and Processing of Aquatic Bioresources"
- or specialties in the field of study "Specific Category"
- 8.18010010 - "Quality, Standardization and Certification"
- 8.18010018 - "Administration Management"
- 8.18010020 - "Management of Educational Institution"
- 8.18010021 - "Pedagogy of Higher School"

### Employment

According to the standards of higher education in the industry and State Classifier of professions SC 003-96, graduates are qualified as Bachelor in Food Technology and Engineering are able to work as: specialist at industrial enterprises of meat and fish industry, and at enterprises in related industries and entities of different forms of ownership to perform managing, industrial, educational, design and research work related to the research of new and improvement of existing technologies in the production of meat and meat products, fish and fishery products.

### Proposed themes of bachelor theses

1. Reconstruction of tinned food "Prolyv" Ltd , Crimea.
2. The project of the plant for canned food plant production for domestic animals, "Prolyv" Ltd , Crimea.
3. The project of the plant for production of delicious canned food, "Prolyv" Ltd , Crimea.
4. The project of the plant for preserves production, "Alaska" Ltd Kyiv region.
5. The project of the plant for the production of smoked fish, "Kerchensky rybokombinat" JSC Crimea.
6. The project of the plant for the production of preserves at the enterprise "Udovychenko", Cherkasy region.
7. Reconstruction of tinned food plant "Kerchensky rybokombinat " JSC, Crimea.



SPECIALTY CODE

**6.110101**

AMOUNT OF ECTS CREDITS

**240/180**

FORM OF STUDY/TRAINING PERIOD, YEARS

**FULL-TIME****4****EXTRA-MURAL****-**

Bachelor can be trained in (licensed number of persons: full-time / extra-mural):

- Basic institution of NULES of Ukraine (Kyiv) (250 / -);
- "KATU" Southern Filial of NULES of Ukraine (Simferopol) (100 / )

EDUCATION AND RESEARCH INSTITUTE

## VETERINARY MEDICINE AND QUALITY AND SAFETY OF LIVESTOCK PRODUCTION

FACULTY

### VETERINARY MEDICINE

SPECIALITY

### VETERINARY MEDICINE

FIELD OF KNOWLEDGE

### VETERINARY



#### Annotation of specialty

Graduates obtain basic higher education and are qualified as junior doctor of veterinary medicine to perform veterinary control, veterinary preventive measures aimed at preventing animal death, improvement of their productivity, quality and safety of animal products, perform preventive and diagnostic procedures, treatment of animals, veterinary-sanitary examination of slaughter products, to ensure compliance with veterinary and sanitary rules while feeding and reproduction of animals.

#### Structure of the curriculum

The curriculum is composed on the basis of educational and professional training programs EQL "Bachelor" in the field "Veterinary Medicine".

Regulatory component of the curriculum consists of 3 cycles:

- humanitarian and socio-economic sciences,
- fundamental and natural sciences,
- professional and practical training,

4464 hours totally , 124 ECTS credits .

An optional component of the curriculum consists of elective subjects chosen by University 2088 hours and chosen by students - 2088 hours, 4176 hours totally , 116 ECTS credits .

The total number of hours in the educational and professional program is 8640, 240 ECTS credits .

The curriculum includes:

- 8 course papers in: feeding animals, the clinical diagnosis of internal diseases, operative surgery, obstetrics, biotechnology of animal reproduction, pathological anatomy and dissection, invasive disease, toxicology, organization and economics, general and specialist surgery, epizootiology and infectious diseases, internal diseases of animals, clinical biochemistry, veterinary and sanitary inspection,
- 19 training practices: academic - 18, on-the-job practices - 1.

State certification involves passing state exams in the cycle of disciplines "Non-contagious diseases of animals" and in the cycle of disciplines "Infectious diseases".

#### Practical Training Places

Bases for practical training of students of the Faculty of Veterinary Medicine are: institution of the University (Kyiv), its subdivisions, research farms of the University (Velykosnitynka Training and Research Farm named after Muzychenko, subdivision of NULESU, "Agronomic Research Station", " Vorzel" Training and Research Farm, "Nemishaievo Agrotechnical College ", where students do laboratory and practical tasks.

## QUALIFICATION OF GRADUATES

**JUNIOR DOCTOR OF VETERINARY MEDICINE WITH QUALIFICATION IN PREVENTING, DIAGNOSING, TREATMENT OF ANIMALS AND VETERINARY-SANITARY INSPECTION OF ANIMAL PRODUCTS**

## SPECIALITY CODE

**6.110101**

**Competencies acquired:**

**Theoretical:** basic understanding of philosophy, promoting development of culture and socialization of a person, economics and law; understanding of cause and effect relationships of society and its use in professional and social activities; basic knowledge in fundamental sciences necessary to obtain professional skills, basic knowledge of computer and information technologies in the field of veterinary; software skills, databases and using internet resources.

**Professional:** knowledge of methods of observation, description, identification, classification, the cultivation of biological objects; basic knowledge of animal nutrition and control of feed quality, basic knowledge of sanitary-hygienic requirements for livestock infrastructural facilities, control requirements, understanding the mechanisms of maintaining homeostasis of animal's organism, up-to-date knowledge of the principles of cellular organization of biological objects, biophysical and biochemical bases of membrane processes and molecular mechanisms of life, ability to use modern experimental methods for work with biological targets under different conditions, ability to use modern tools, equipment and instrumentation, knowledge of basic laws and modern achievements in genetics, selection and breeding, knowledge and the practical application of the principles, understanding social and environmental consequences in professional activities.

**Specialized and professional:** knowledge of the legal principles and legislation of Ukraine in the field of veterinary medicine, ability to organize work according to life safety requirements in veterinary field, knowledge of patterns of reproduction and individual development of animals, practices of transplant embryos of animals, ability to plan and implement antiepidemiological measures, ability to use knowledge and practical skills in natural sciences, professional and practical training to eliminate and prevent non-contagious and contagious diseases and treat animals, examine products of animal and vegetable origin to protect people from zoonoses.

**Academic rights of graduates**

Graduates have the right to apply for master program in specialties related to bachelor curricula starting from the second year of study:

8.11010101 - "Veterinary Medicine"

or specialties in the field of study "Specific Category"

8.18010010 - "Quality, Standardization and Certification"

8.18010018 - "Administration Management"

8.18010020 - "Management of an Educational Institution"

8.18010021 - "Pedagogy of Higher School"

**Employment**

Faculty graduates with a diploma of a junior doctor of veterinary can be employed at enterprises, institutions and organizations of public and other forms of ownership.



SPECIALTY CODE

**6.090103**

AMOUNT OF ECTS CREDITS

**240**

FORM OF STUDY/TRAINING PERIOD, YEARS

**FULL-TIME****4****EXTRA-MURAL****5**

Bachelor can be trained in (licensed number: full /extra-mural):

- Basic institution of NULES U (Kyiv) (335/350);
- "KATU" Southern Filial of NULES U (Simferopol) (130/50);
- Berezhan Agrotechnical institute" (50/50) of NULES of Ukraine;
- "Lubenskyi NIKP" (-/50) of NULESU
- Malynskyi NIKP" (-/50) of NULESU

EDUCATION AND RESEARCH INSTITUTE

**FORESTRY, PARK AND GARDENING MANAGEMENT**

FACULTY

- **FORESTRY**
- **HORTICULTURE AND LANDSCAPE ARCHITECTURE**

SPECIALITY

**FORESTRY, PARK AND GARDENING MANAGEMENT**

FIELD OF KNOWLEDGE

**AGRICULTURE AND FORESTRY****Annotation of specialty**

The main objectives are: to train specialists in forestry and landscape management; to provide multifunctional forestry and landscape management, efficient and sustainable multi-use plantings in urban environment; to protect natural biodiversity at all levels, to provide sustainable and efficient plantings.

**Structure of the curriculum**

The curriculum is composed on the basis of educational and professional training programs EQL "Bachelor" in the field "Forestry, Park and Gardening management." Regulatory component of the curriculum consists of 3 cycles:

- humanitarian and social and economic sciences,
- fundamental and natural sciences,
- professional and practical training,

4878 hours totally, 135.5 ECTS credits .

An optional component of the curriculum consists of elective courses chosen by University 2502 hours and 72 hours chosen by students, 2556 hours totally, 71 ECTS credits.

The total number of hours of the educational and professional program is 8640, 240 ECTS credits .

The curriculum includes:

- 6 course papers (projects) in the disciplines: dendrology, forest selection, ornamental nurseries and seed, landscape architecture, grass farming and lawns, landscape gardening construction;
- 21 training practices: academic training (fundamentals of computer science, foundations of professional training, botany, geodesy, mechanization of forestry work, timber selection, forest zoology, forestry soil science, dendrology, forest plantations, mechanization of landscaping works, decorative dendrology, forest phytopathology, forest entomology, floriculture, recreational forestry, landscape inventory, grass farming and lawns, garden and park design, engineering equipment ACT);
- on-the-job practice (study visits and work placements).

State certification involves passing the state exam, writing and defending bachelor thesis.

**Practical Training Places**

Training and research farms, research stations of NULESU; Botanical Garden of NULESU, enterprises of the State Agency of forest resources of Ukraine Yaltynsky NSC of biology and ecology of subtropical plants and landscape of NULESU, Yalta, Crimea; "Ukrzelenbud" Corporation, "Kyivzelenbud" ME.



QUALIFICATION OF GRADUATES

## BACHELOR IN FORESTRY AND PARK AND GARDENING MANAGEMENT

SPECIALITY CODE

6.090103

### Competencies acquired:

Theoretical (the humanities, social and economic sciences): communication skills in native and foreign languages; social and civic competencies; cultural awareness and expression.

Fundamental (mathematical and natural sciences): ability to develop and to use mathematical skills; computer skills, knowledge of natural and social environment; knowledge of botanical, dendrological, morphological, genetic-breeding, edaphic, and ecological characteristics of phytocenological components of planting; knowledge in the fundamental disciplines; use of instruments of survey, means for measuring forest characteristics of woody plants, knowledge about pests and pathogens, methods of forest selection; landscaping principles of settlements, regulations on labour safety in forestry work and horticulture.

Professional and practical: ability to carry out preparatory work for the full scale inventory of forest and gardens objects, geodesic shooting map, study and compiling; evaluation of felled model, natural regeneration on groves and under canopy forest; organization of forest seed complex; growing planting material of forest and ornamental rocks; creating cultures of forest species, landscape park facilities under projects, flower production, grass seed, forest cuttings.

### Academic rights of graduates

Graduates can continue training for master's degree in specialties related to bachelor curriculum starting from the second year of study:

8.09010301 - "Forestry"

8.09010302 - "Wildlife Services "

8.09010303 - "Landscape Gardening"

or Specialties in the field of study "Specific Categories":

8.18010010 - "Quality, Standardization and Certification"

8.18010018 - "Administration Management"

8.18010020 - "Management of an Educational Institution"

8.18010021 - "Pedagogy of Higher School"

### Employment

Graduates can be employed at forest enterprises of the State Agency of forest resources, agencies to maintain green plantations, public and private hunting facilities as well as design and scientific forestry institutions.

### Proposed themes for bachelor theses

1. Features of thinned and passable logging in pine plantations
2. Natural regeneration of Scots pine for log houses
3. Protection of forests from fires and measures to improve it
4. Analysis of methods to determine the stock of mature spruce stands
5. Insect pests of pine forest sapplings and their importance
6. Project proposals for the reconstruction of park of landscape art "Korostyshivsky"
7. Projects for landscaping and improvement of educational institutions of Ukraine



SPECIALTY CODE

**051801**

AMOUNT OF ECTS CREDITS

**240**

FORM OF STUDY/TRAINING PERIOD, YEARS

**FULL-TIME****4****EXTRA-MURAL****5**

Bachelor can be trained in (licensed number:  
full-time / extra-mural):

- Basic institution of NULES of Ukraine (Kyiv) (50/100);
- "Malyn TICC" SS of NULES of Ukraine (- / 50)

EDUCATION AND RESEARCH INSTITUTE

**FORESTRY, PARK AND GARDENING MANAGEMENT**

FACULTY

**FORESTRY**

SPECIALITY

**WOOD PROCESSING TECHNOLOGIES**

FIELD OF KNOWLEDGE

**WOOD PROCESSING****Annotation of specialty**

Training involves assimilation of knowledge and skills to develop designs and technologies of manufacturing wood materials and products, determination of their characteristics and quality, mastering techniques for analyzing existing technological processes. Disciplines cover theoretical and practical aspects of technologies of manufacture of wood products, trends in wood processing technologies, modern requirements for wood products, features of modern woodprocessing equipment.

**Structure of the curriculum**

The curriculum is composed on the basis of educational and professional training programs EQL "Bachelor" in the field of study "Wood processing technology".

A regulatory component of the curriculum consists of 3 cycles:

- humanitarian and social and economic sciences,
- mathematical and natural sciences,
- professional and practical training,

6300 hours totally, 175 ECTS credits .

An optional component of the curriculum consists of elective subjects chosen by University 1692 hours and 648 hours chosen by students; 2340 hours totally, 65 ECTS.credits

The total time for the educational and professional program is 8640 hours, 240 ECTS credits.

The curriculum includes:

- 8 course papers (projects) in the disciplines: "Applied Mechanics", "Technology sawmills, wood processing industries", "Technology of wood drying and protection", "Design of wood products", "The technology of wood products", "Technology of lumber", "Technology of glued materials and plates", "Technology of wood decoration",
- 16 training practices: academic ("Numerical Mathematics and programming", "Introduction to profession", "Production work", "Technology of glued materials", "Equipment in the industry", "Technology sawmills, wood processing industries", "Wood Science", "Fundamentals of Automation and AVP", "Technology of wood products", "Design of wood products", "Technology of furniture products", "Technology of joiner articles", "Technology Practice", "Technology of lumber", "Technology of wood products"), production (study visits and technological practice).

State certification involves passing the state exam.

**Practical Training Places**

Bases for practical training are educational, scientific and educational laboratories of departments and "Boyarka Forest Research Station" Subdivision of NULESU and leading forestry enterprises of the State Agency of Forest Resources of Ukraine and private woodprocessing enterprises.

QUALIFICATION OF GRADUATES

**BACHELOR IN WOODPROCESSING TECHNOLOGY**

SPECIALITY CODE

**6.051801****Competencies acquired:**

**Theoretical (the humanities, social and economic sciences):** communication skills in native and foreign languages; interpersonal skills, personal and professional development, critical thinking.

**Fundamental (mathematical and natural science):** ability to develop and to use mathematical skills; computer skills; adequately deep knowledge of the natural and social environment, ability for self-development; knowledge of laws and regulations, defense of social rights; ability to perform certain professional tasks; knowledge in the basic sciences, including disciplines of the cycle of natural science in training wood technologists: higher mathematics, physics, computer science and systematology.

**Professional and practical:** knowledge about physical, mechanical, chemical and biological properties of wood; properties of metals and plastics and their use in wood processing; electric devices, network, machines and their possible use in wood processing; analysis of economic efficiency of wood companies; thermal processes in different materials and heat-technical devices and their possible regulation; security in engineering of production processes and safety in wood processing shops; ability to determine the quality and volume of a number of round and sawn timber according to current standards; ability to organize storage; structural features of the major groups of woodprocessing machines, their rigging and use; thermal calculation of drying process and equipment; technological principles of organization of production processes for wood products; processes of primary processing of wood of varying size-quality characteristics with regard to major groups saw-cutting machine tools and planning materials.

**Academic rights of graduates**

Graduates can continue their training for master's degree related to the bachelor curriculum starting from the second year of study:

8.05180101 - "Wood Technology"

or specialties in the field of study "Specific Categories":

8.18010010 - "Quality, Standardization and Certification"

8.18010018 - "Administration Management"

8.18010020 - "Management of an Educational Institution"

8.18010021 - "Pedagogy of Higher School"

**Employment**

Graduates can be employed at forest enterprises of the State Agency of forest resources, government and commercial enterprises in production and sale of construction materials, government and commercial woodprocessing and furniture factories.



SPECIALTY CODE

**6.100102**

AMOUNT OF ECTS CREDITS

**240/120**

FORM OF STUDY/TRAINING PERIOD, YEARS

<b>FULL-TIME</b>	<b>4</b>
<b>EXTRA-MURAL</b>	<b>5</b>
<b>EXTERNSHIP</b>	<b>5</b>

Bachelor can be trained at the basic institution (licensed number: full / extra-mural):

- Basic institution of NULES of Ukraine (Kyiv) (200/250);
- "KATU" Southern Filial of NULES of Ukraine (Simferopol) (95/95);
- "Nizhyn Agrotechnical Institute" SS of NULESU(75/75)
- "Tarashchansky educational information and consulting center" PS of NULES of Ukraine (- / 50)
- "Berezhany Agrotechnical College" PS of NULES of Ukraine (60/50);
- "Berezhany Agrotechnical Institute" PS of NULES of Ukraine (75/100);

EDUCATION AND RESEARCH INSTITUTE

**TECHNICAL**

FACULTY

**AGROBIOSYSTEMS ENGINEERING**

SPECIALITY

**PROCESSES, MACHINERY AND EQUIPMENT OF AGROINDUSTRIAL PRODUCTION**

FIELD OF KNOWLEDGE

**ENGINEERING AND ENERGETICS OF AGRICULTURAL PRODUCTION****Annotation of specialty**

The programs provides knowledge and skills in the field of new-generation processes, machines and equipment for crops, livestock, biotechnology and manufacturing industry etc. based on modern standards of education adapted to the requirements of the world's best programs for the public and private sectors in Ukraine.

**Structure of the curriculum**

The curriculum is composed on the basis of educational and professional training programs EQL "Bachelor" in the field of study "Processes, machines and equipment of agricultural production". Regulatory component of the curriculum consists of 3 cycles:

- Humanitarian and social and economic sciences,
- Mathematical and natural sciences,
- Professional and practical training.

The total amount of hours for the educational and professional program in full time training - 8640, 240 ECTS credits (4 years) and short term training - 4320 hours, 120 ECTS credits (2 years).

The curriculum includes:

- 10 course papers (projects) (full -time study) in the following subjects: "Theory of mechanisms and machines", "Tractors and cars", "Machine parts", "Farm Machinery", "Interchangeability, standardization and technical measurements", "Technical Service in Agriculture", "Operation of machinery and equipment", "Repair of machinery and equipment", "Mechanization using of livestock", "Machines in animal husbandry".
- 5 training practices (full-time study): academic (repair and metalwork), manufacturing (mechanical technology, professional and technological, work on farms).

State certification involves passing the state exam, writing and defending bachelor theses.

**Practical Training Places**

Strategic Partners: Claas Ukraine; John Deere Ukraine; Amako Ukraine, Technician-s-stainless, Astra; Zeppelin Ukraine; Lemken Ukraine; Vaderstadt Ukraine; Tan; Komsomolets, "Institute of Mechanization and Electrification of Agriculture" NSC, Ukr-NDIPVT named after Leonid Pogorilyi.

QUALIFICATION OF GRADUATES

## BACHELOR IN PROCESSES, MACHINERY AND EQUIPMENT OF AGROINDUSTRIAL PRODUCTION

SPECIALITY CODE

6.100102

### Competencies acquired

**Theoretical (humanities, social and economic sciences):** Ukrainian language (for professional purposes), foreign language, history of Ukraine, physical training, history of Ukrainian culture, philosophy, political science, sociology, psychology, economics, management, marketing.

**Fundamental (mathematical and natural sciences):** physics, descriptive geometry, computer graphics, higher mathematics, chemistry, theory of mechanisms and machines, engineering mechanics, mechanics of materials and structures; hydraulic, thermal and electrical engineering; automation theory.

**Professional and practical:** materials, construction technology, fuel and lubricants; interchangeability, standardization and technical measuring; history of farm machinery, tractors and cars, agricultural machinery, machine parts, machines for livestock, lifting machines, machines for processing of farm products, labor protection in agriculture, technical service in agriculture, repair of machines, use of machines in livestock, use of machines in crop production, operation of machines, economy of agriculture, foundations of biotechnology, engineering ecology, basics of controlling farm equipment.

### Academic rights of graduates

**Graduates** can continue their training for master's degree related to bachelor curriculum starting from the second year of study:

8.10010203 - "Agricultural Engineering"

or Specialties in the field of study "Specific Categories":

8.18010010 - "Quality, Standardization and Certification";

8.18010018 - "Administration Management";

8.18010020 - "Management of an Educational Institution";

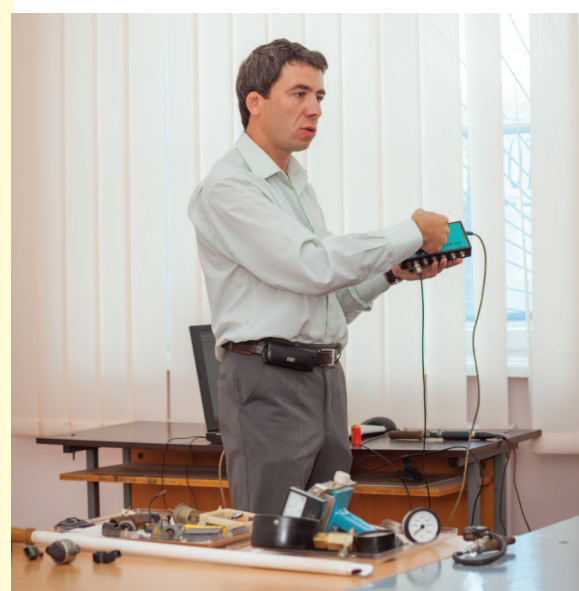
8.18010021 - "Pedagogy of higher school."

### Employment

Graduates can be employed at leading agricultural and environmental enterprises in compliance with state orders, orders of strategic and basic enterprises for practical training.

### Proposed themes for bachelor theses

1. Development of technological process and systems of machines for growing crops (wheat, barley, rye, sorghum, sugar beet, corn, sunflower, etc.).
2. Development of technology and facilities for maintenance of farm machinery (brands and types).
3. Evaluation of technical working conditions of agricultural machinery (mobile power equipment, tractors, harvesters, forage harvesters, beet harvesters, sowing complex, etc.) in the development process of their restoration.
4. Development of technology and facilities for maintenance of construction equipment (brands and types).
5. Development of technological process and systems of machines for processing farm products.
6. Development of technological process and systems of machines for the production of biogas.
7. Development of technological repair process of agricultural machinery (types) and hardware i.
8. Development of supplied machinery and equipment (farms) and process (keeping, feeding, etc.)research.
9. Development of measures to prevent accidents and injuries in the agricultural production process.



SPECIALTY CODE

**6.070101**

AMOUNT OF ECTS CREDITS

**240/120**

FORM OF STUDY/TRAINING PERIOD, YEARS

**FULL-TIME****4/2****EXTRA-MURAL****5/3****EXTERNSHIP****5**

Bachelors can be trained at the Basic institution of NULES of Ukraine (licensed number: full-time - 100 / extra-mural - 100)

EDUCATION AND RESEARCH INSTITUTE

**TECHNICAL**

FACULTY

**AGROBIOSYSTEMS ENGINEERING**

SPECIALITY

**TRANSPORT TECHNOLOGIES  
(ACCORDING TO THE TYPES OF VEHICLES)**

FIELD OF KNOWLEDGE

**TRANSPORT AND TRANSPORT INFRASTRUCTURE****Annotation of specialty**

To provide knowledge and skills of specialist in new generation transport technologies in agricultural and conservation areas based on modern standards adapted to the requirements of the world's best educational programs for jobs in the state and private sectors in Ukraine.

**Structure of the curriculum**

The curriculum is composed on the basis of educational and professional training programs of EQL "Bachelor" in the field of study "Transport Technologies" (according to the types of vehicles).

A regulatory component of the curriculum consists of 3 cycles:

- Humanitarian and social and economic sciences,
- Mathematical and natural sciences,
- Professional and practical training,

for full-time period 6480 hours totally, 180 ECTS credits, and for short-time period 3240 hours, 90 ECTS credits.

The total number of hours of the educational and professional program is for full-time period 8640, 240 ECTS credits, and for short-time period 4320 hours, 120 ECTS credits (2 years).

The curriculum includes:

- course papers/projects (full-time study) in the following subjects: "Technical mechanics", "Operations research in transport systems", "Basics of theory of transport processes and systems", "Freight", "Interaction of transport " Logistics ", "Maintenance and repair of motor vehicles", "Vehicles safety".
- 4 training practices (full-time study): academic (technical management) and production (professional technology, manufacture in transport companies).

State certification involves passing the state exam, writing and defending bachelor thesis.

**Practical Training Places**

89 recommended places, including: strategic partners John Deere Ukraine, Amako Ukraine, Myronivka ZVVK, Astra, district patrol squad in the regions (Kyiv, Crimea, Cherkasy, Khmelnytsky, Chernihiv, Zhytomyr, Rivne, Volyn, Poltava, etc.) and regional traffic police departments.

QUALIFICATION OF GRADUATES

## BACHELOR IN TRANSPORT TECHNOLOGIES (ACCORDING TO THE TYPES OF VEHICLES)

SPECIALITY CODE

6.070101

### Competencies acquired

**Theoretical (the humanities, social and economic sciences):** Ukrainian language (for professional purposes), foreign language, history of Ukraine, physical training, history of Ukrainian culture, philosophy, political science, sociology, law, basics of transport psychology, economics, management, marketing, basics of customs legislation, basics of criminology, traffic.

**Fundamental (mathematical and natural science):** physics, descriptive geometry, computer graphics, higher mathematics, probability theory and mathematical statistics, chemistry, engineering mechanics, fundamentals of economics transports, tariffs and tariff systems, electronics and electrical engineering, theory of automation, basics of systems management and theories.

**Professional and practical:** logistics, dynamics of transport and traction machines, vehicles, the general course of transport, operations research in transportation systems, the theory of transport processes and systems, basic ecology, freight, passenger transportation, interaction of types of vehicles, regulations in State Traffic Police; exploitation properties of vehicles; lifting machines; fuel and lubricants, and other supplies; operating properties of roads and buildings; organization of traffic; hygiene; transportation of animals and animal products; storage technology of farm products during transportation; transport planning in agriculture; ecological characteristics of ODA schemes; facilities of ODA; organization of international motor transportation; technology and transport processes in farm production; technical internal maintenance and repair of vehicles; the "machine-environment" system; expertise of accidents, cargo management, transportation trasology; security of vehicles.



### Academic rights of graduates

Graduates can continue training for master's degree related to bachelor curricula starting from the second year of study:

8.07010102 - "Transportation and Management of Transport (road transport);

8.07010104 - "The Organization and Regulation of Traffic"

or specialties in the field of study "Specific Categories":

8.18010010 - "Quality, Standardization and Certification";

8.18010018 - "Administration Management",

8.18010020 - "Management of an Educational institution";

8.18010021 - "Pedagogy of Higher School" .

### Employment

Graduates can be employed at leading transportation and logistics companies in agricultural complex and subdivisions of State traffic police stations according to state order for specialist training, orders by strategic partners and enterprises for practical training of students.

### Proposed themes of theses

1. Development (improvement) of urban street traffic using elements of automated traffic management system.
2. Development of rational international routes of vehicles for transportation of agricultural goods.
3. Development of transport and process crops harvesting for an enterprise (association, farm, etc.)
4. Development of recommendations to improve the safety of vehicles and pedestrians on the streets (avenue, square, etc.).
5. Development of transport and production process for transportation of animals at the enterprise (association, farm, etc).
6. Development of transport and production process for transportation of poultry at the enterprise (association, farm, etc).
7. Development of transport and production process for transportation of reproductive materials of the farm animals and poultry at enterprise (association, farm, etc.).

SPECIALTY CODE

**6.050503**

AMOUNT OF ECTS CREDITS

**240**

FORM OF STUDY/TRAINING PERIOD, YEARS

**FULL-TIME****4****EXTRA-MURAL****5**

Bachelors can be trained at the basic institution of NULES of Ukraine (Kyiv) (licensed number: full-time - 170 /extra-mural - 120)

EDUCATION AND RESEARCH INSTITUTE

**TECHNICAL**

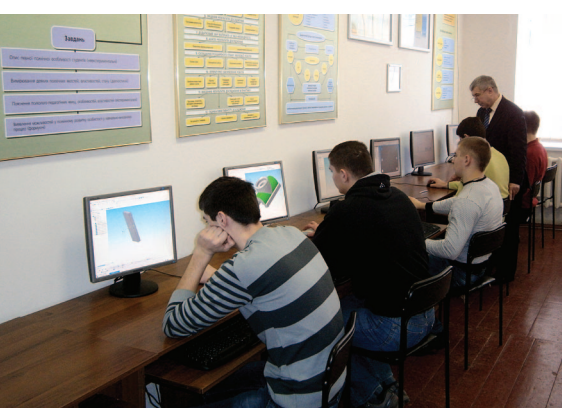
FACULTY

**ENGINEERING AND DESIGNING OF MACHINERY AND SYSTEMS OF ENVIRONMENTAL USE**

SPECIALITY

**MACHINE ENGINEERING**

FIELD OF KNOWLEDGE

**MACHINE ENGINEERING AND PROCESSING OF MATERIALS****Annotation of specialty**

Modern agrarian industry requires multifunctional machines and equipment, which can be created by highly qualified design engineers. Training of design engineers is based on a high-level teaching of fundamental and general disciplines and knowledge about perspectives of construction of agricultural machines.

**Structure of the curriculum**

The curriculum is composed on the basis of educational and professional training programs EQL "Bachelor" in the field of study "Machine engineering".

A regulatory component of the curriculum consists of 3 cycles:

- Humanitarian and social-economic sciences,
- Mathematical and natural sciences,
- Professional and practical training,

6264 hours totally, 174 ECTS credits.

An optional component of the curriculum consists of elective courses chosen by University 1584 hours, and 432 hours chosen by students, 2016 hours totally, 56 ECTS credits.

The total number of hours of the educational and professional program is 8640, 240 ECTS credits.

The curriculum includes:

- 7 course papers (projects) in the disciplines: interchangeability and technical measurement, theory of mechanisms and machines, machine parts, technology of engineering, principles of design mobile energy resources, basics of design farm machines, oil gear of farm machines.
- 9 training practices: academic (engineering in plant production, engineering in animal husbandry, technology of construction materials, vehicle handling), industrial (technological factory practice, technology in forestry work, factory practice, pre-diploma practice).

State certification involves passing the state exam, writing and defending bachelor thesis.

**Practical Training Places**

Teaching and research farms: "Velykosnitynka Training and Research Farm named after Muzychenko" PS of NULESU, "Agronomy Research Station" of NULESU, "Vorzel" Training and Research Farm" PS of NULESU, "Boyarka Forest Research Station" PS of NULESU.

Leading research institutions and agricultural enterprises: "IMESG" NSC, Ukr-NDIPVT named after L. Pogorilyi, "TAN", "BilotserkivMAZ", "Komsomolets", "Claas", "John Deere", "Amako", "Astra".



QUALIFICATION OF GRADUATES

**BACHELOR IN MACHINE ENGINEERING**

SPECIALITY CODE

**6.050503****Competencies acquired**

**Theoretical (the humanities, social and economic sciences):** Ukrainian language (for professional purposes), foreign language, history of Ukrainian culture, history of Ukraine, philosophy, physical education, psychology and pedagogy, political science, sociology, basic economic theory.

**Fundamental (mathematical and natural sciences):** higher mathematics, chemistry, computer science and computer technology, descriptive geometry, applied mathematics, theoretical mechanics, materials, construction materials, mechanics of materials and structures, general electrical engineering, hydraulics, interchangeability, standardization and technical measurement, theory of machinery, engineering and computer graphics, mechanical and technological properties of agricultural materials, machine parts, heating, basic research.

**Professional and practical:** professional orientation, technology engineering, design of mobile power tools, the theory of cutting, metalworking machines and tools, modeling processes on a PC, life safety, electronics and microprocessor technique, design principles of agricultural machines, basics of labour safety, automation of agricultural technology.

**Academic rights of graduates**

Graduates can continue their training for master's degree related to bachelor curricula:

8.05050312 - "Machinery and Equipment of Agricultural Production";

8.05050303 - "Equipment of Forest Complex"

or specialties in the field of study "Specific Categories":

8.18010010 - "Quality, Standardization and Certification";

8.18010018 - "Administration Management";

8.18010020 - "Management of an Educational institution";

8.18010021 - "Pedagogy of High School."

**Employment**

According to the State classifier of occupations SC 003-2010, graduates can be employed as: technical specialists in the field of technology, professionals in the field of architecture and engineering and may occupy positions: construction engineer, construction engineer and researcher.

The enterprises of training and practical training bases as well as leading enterprises of agricultural and environmental sectors of Ukraine economy are offered for further employment of specialists.

**Proposed themes of bachelor theses**

1. Improvement of oil filter in the biodiesel production line .
2. Improvement of design of methane tank for biogas production.
3. Development of machines for transplanting trees.
4. Development of mechanism for turning stationary jib cranes.
5. Improvement of spray device for field crop sprayer for liquid fertilizers.
6. Improvement of mobile feeders for cattle.
7. Development of individual drinking tanks for pigs.

SPECIALTY CODE

**6.060101**

AMOUNT OF ECTS CREDITS

**240/120**

FORM OF STUDY/TRAINING PERIOD, YEARS

<b>FULL-TIME</b>	<b>4</b>
<b>EXTRA-MURAL</b>	<b>5</b>
<b>EXTERNSHIP</b>	<b>5</b>

Bachelors can be trained at the basic institution of NULES of Ukraine (licensed number: 50)

EDUCATION AND RESEARCH INSTITUTE

**TECHNICAL**

FACULTY

**AGROBIOSYSTEMS ENGINEERING**

SPECIALITY

**CONSTRUCTION**

FIELD OF KNOWLEDGE

**CONSTRUCTION AND ARCHITECTURE**

#### Annotation of specialty

Providing knowledge and skills in construction of agricultural and environmental systems based on up-to-date state standards of education adapted to the requirements of the world's best educational programs for the state and private sectors in Ukraine.

#### Structure of the curriculum

The curriculum is composed on the basis of educational and professional training programs of EQL "Bachelor" in the field of study "Construction".

A regulatory component of the curriculum consists of 3 cycles:

- Humanitarian and social-economic sciences,
- Mathematical and natural sciences,
- Professional and practical training.

Total: full training period is 6480 hours, 180 ECTS credits (4 years), short training period is 3240 hours, 90 ECTS credits (2 years).

The total number of hours of the educational and professional program is: full-time - 8640, 240 ECTS credits and short-time - 4320 hours, 120 ECTS credits.

The curriculum includes:

- 7 course papers (projects) (full -time study) in the following subjects: "Metrology and standardization", "Engineering Geodesy", "Construction Machinery", "Architecture of buildings", "Basis and foundations", "Technology and Organization of Construction", "Constructions".
- 4 training practices (full-time study): academic (geodesic), industrial (vocational and technical, industrial at enterprises).

State certification involves passing the state exam, writing and defending bachelor graduation project.

#### Practical Training Places

Strategic partners: John Deere Ukraine; Amako Ukraine; Knauf Ukraine, Astra, Kyivbud, Agrohodyngbud.

QUALIFICATION OF GRADUATES

**BACHELOR IN CONSTRUCTION**

SPECIALITY CODE

**6.060101****Competencies acquired**

Theoretical (the humanities, social and economic sciences): Ukrainian language (for professional purposes), foreign language (professional orientation), physical education, history of Ukrainian culture, philosophy, political science, sociology, law, psychology, economics, management, marketing.

Fundamental (mathematical and natural sciences): physics, descriptive geometry, computer graphics, higher mathematics, chemistry, theory of mechanisms and machines, engineering mechanics, mechanics of materials and structures, hydraulics, electronics and electrical, automation theory, economics of construction.

Professional and practical: engineering surveying (general course), engineering geology, construction materials, construction engineering, architecture of buildings, metrology and standardization in construction, structural mechanics, water supply and sanitation, technology of building industry, metal constructions, heat and ventilation, urban planning and transport, bases and foundations, the production base of construction, technology and organization of construction, building construction, concrete and stone design, engineering structures, metals and welding in construction, foundation of design and construction business, modern building materials, plastic wood constructions, software engineering calculations, examinations and testing buildings, seismology, principles of design automation in construction.

**Academic rights of graduates**

Graduates can continue their training for master's degree related to bachelor curriculum starting from the second year of study:

8.07010101 - "Industrial and Civil Construction"

or specialties in the field of study "Specific Categories":

8.18010010 - "Quality, Standardization and Certification";

8.18010018 - "Administration Management",

8.18010020 - "Management of an Educational institution";

8.18010021 - "Pedagogy of Higher School".

**Employment**

At the leading construction companies and agricultural complex in accordance with state orders for training specialist, orders of strategic partners and enterprises for practical training of students.

**Proposed themes of theses:**

1. Project of construction of rural, agricultural and environmental systems.
2. Project of construction of engineering structures of agricultural and environmental systems.
3. Development of technology for building production facilities in rural areas and environmental systems.
4. Development of technologies for inspection and testing buildings in rural areas, in agricultural and environmental systems.
5. Evaluation of the properties of metals and materials in the construction for rural areas, in agricultural and environmental systems.
6. Development of process and support systems of building machines under specific production conditions.
7. Development of process and support of mechatronic systems of construction machinery.
8. Evaluation of the technical condition of working groups of machinery (by brand) with the development of process of their recovery.
9. Justification of measures to prevent accidents and injuries in production processes in construction.

SPECIALTY CODE

**6.100101**

AMOUNT OF ECTS CREDITS

**240**

FORM OF STUDY/TRAINING PERIOD, YEARS

**FULL-TIME****4****EXTRA-MURAL****5**

Bachelors can be trained  
in (licensed number:  
full / extra-mural):

- Basic institution of NULES of Ukraine (170/220);
- "Berezhany Agrotechnical Institute" PS of NULES of Ukraine (75/100);
- "Nizhyn Agrotechnical Institute" PS of NULES of Ukraine (75/75).

EDUCATION AND RESEARCH INSTITUTE

**POWER ENGINEERING AND AUTOMATION**

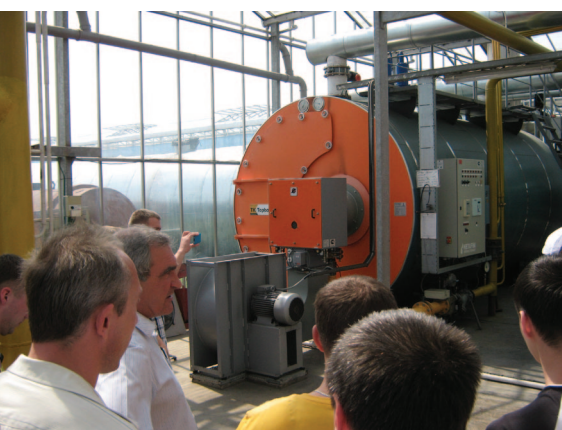
FACULTY

**POWER ENGINEERING AND AUTOMATION**

SPECIALITY

**POWER ENGINEERING AND ELECTROTECHNICAL SYSTEMS IN AIC**

FIELD OF KNOWLEDGE

**TECHNICAL AND POWER ENGINEERING OF AGRICULTURAL PRODUCTION****Annotation of specialty**

Future engineers receive thorough knowledge of manufacturing, distribution and consumption of electricity. Much attention is paid to the use of renewable and alternative energy sources. Experts in power and electrical systems in agriculture have knowledge about installing, debugging and technical service of various power equipment: motors, generators, complete transformer substations, overhead power transmission lines and cables, lighting equipment etc.

**Structure of the curriculum**

The curriculum is composed on the basis of educational and professional training programs for professions and EQL "Bachelor" in the field of study "Power engineering and electrotechnical systems in AIC".

A regulatory component of the curriculum consists of 3 cycles:

- Humanitarian and social-economic sciences,
- Mathematical and natural sciences,
- Professional and practical training,

6048 hours totally, 168 ECTS credits.

An optional component of the curriculum consists of elective subjects chosen by University - 1224 hours and 1368 hours - chosen by students, 2592 hours totally, 72 ECTS credits. The total number of hours of the educational and professional program is 8640. 240 ECTS credits.

The curriculum includes:

- 6 course papers (projects) in the disciplines: theoretical foundations of electrical engineering, computers and computer technologies, electro technology and lighting, basics of electricity, control and protection devices, thermal power plants and systems;
- 4 training practices: academic (production and processing of farm products, electrical artificer), industrial (wiring, operational).

State certification involves passing the state exam, writing and defending bachelor degree thesis.

**Practical Training Places**

"Agronomy Research Station" PS of NULES of Ukraine, "Velykosnitynka Training and Research Farm named after O. Muzychenko" PS of NULES of Ukraine, "Vorsel Training and Research Farm" PS of NULES of Ukraine, "Volynoblenergo" PAT, "A.E.S" PAT, "Rivneoblenergo", "Zhytomyroblenergo" PAT EC, "AES Kyivoblenergo" PAT, "Elektromerezhbud-5" Ltd, "Ukrenergo" GP West ES Lviv region, "Ukrenergo" DP, Cherkassky MEM, "Specelectro" Ltd Kyiv region, Novograd-Volynsky PEM, "Zhytomyroblenergo" PAT EC, "Trade House" Ltd, "ELVO-Ukraine", "Pivdenna electrotechnichna company" Ltd.

QUALIFICATION OF GRADUATES

**BACHELOR ELECTRICIAN AND TECHNICIAN**

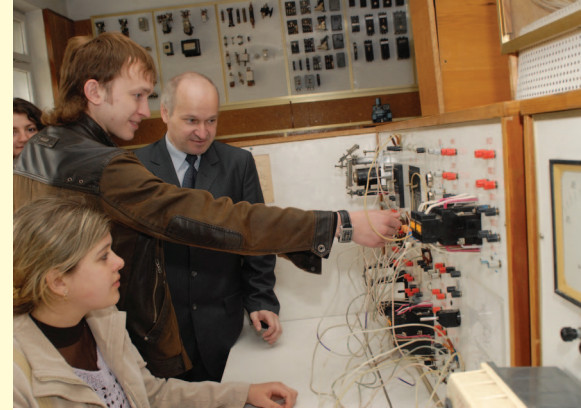
SPECIALITY CODE

**6.100101****Competencies acquired**

Theoretical (the humanities, social and economic sciences): basics of philosophy, psychology, pedagogy, contributing to the development of general culture and socialization of personality, aesthetic and cultural awareness and social skills.

Fundamental (mathematical and natural sciences): knowledge of engineering and computer graphics, computers and computer technology, higher and applied mathematics used in research and professional activities, training in the theoretical foundations of electrical engineering, basics of automation for using mathematical tools in solving applied and scientific problems in energy and electrical systems.

Professional and practical: ability to use professional mathematical competencies for statistical processing of experimental data and mathematical modeling of electrical equipment and processes, ability to use professional knowledge and practical skills in the field of physics, electricity, magnetism, mechanics and thermodynamics to study electro-magnetic processes and phenomena, ability to use knowledge and skills in chemistry for studying electrochemical processes and phenomena.

**Academic rights of graduates**

Graduates can continue training for master's degree related to bachelor curriculum starting from the second year of study:

8.10010101 - "Power engineering of Agricultural Production"

8.10010103 - "Electrification and Automation of Agriculture"

or specialties in the field of study "Specific Categories":

8.18010010 - "Quality, Standardization and Certification"

8.18010018 - "Administration Management"

8.18010020 - "Management of an Educational Institution"

8.18010021 - "Pedagogy of Higher School"

**Employment**

Graduates can be employed in the field of agriculture and power systems in the chosen profession, at agricultural enterprises of different forms of ownership, research institutions of NAS of Ukraine and UAAS. According to the industry standard of higher education in Ukraine graduates are qualified as technician and electrician and can occupy the following positions: electrical dispatcher, power engineering specialist.

**Proposed themes of thesis**

1. Modernization of electrical distribution networks.
2. Reconstruction of RTP 35/10 kV with the detailed design of protection of power transformer capacity 2500 kVA.
3. Energy supply of livestock farm in integrated use of renewable energy supplies.
4. Water supply at "Vorzel" SRS with developing iron removal from groundwater in the Rozhnovsky towers.
5. Electrification of technological processes in the work shop with the use of compensated induction motors
6. Electrification of technological processes at the repair station equipment with development of control circuit of capacity of current welding
7. Electrification of technological processes in seasonal green houses.
8. Development of automatic control systems for milk pasteurization
9. Electrification of technological processes for irrigation pumping station
10. Electrification of technological processes for plant producing dried milk.

SPECIALTY CODE

**6.050701**

AMOUNT OF ECTS CREDITS

**240**

FORM OF STUDY/TRAINING PERIOD, YEARS

**FULL-TIME****4****EXTRA-MURAL****5**

Bachelors can be trained  
at the basic institution of NULES of Ukraine  
(licensed number:  
full-time 25 / extra-mural 25

EDUCATION AND RESEARCH INSTITUTE

**POWER ENGINEERING AND AUTOMATION**

FACULTY

**POWER ENGINEERING AND AUTOMATION**

SPECIALITY

**ELECTROTECHNICAL ENGINEERING  
AND ELECTRICAL TECHNOLOGIES**

FIELD OF KNOWLEDGE

**ELECTROTECHNICAL ENGINEERING AND ELECTROMECHANICS****Annotation of specialty**

Future engineers receive a thorough knowledge of manufacturing, distribution and consumption of electricity. Much attention is paid to the use of renewable and alternative energy sources. Experts in energy and electrical systems in agriculture have knowledge about installing, debugging and technical service of various power equipment: motors, generators, complete transformer substations, overhead power transmission lines and cables, lighting equipment etc.

**Structure of the curriculum**

The curriculum is composed on the basis of educational and professional training programs for professions and EQL "Bachelor" in the field "Power engineering and electrical technologies".

A regulatory component of the curriculum consists of 3 cycles:

- Humanitarian and social-economic sciences,
- Mathematical and natural sciences,
- Professional and practical training,

7632 hours totally, 212 ECTS credits.

An optional component of the curriculum consists of elective subjects chosen by University - 720 hours and 288 hours - chosen by students, 1008 hours totally, 28 ECTS credits. The total number of hours of the educational and professional program is 8640, 240 ECTS credits.

The curriculum includes:

- 4 course papers (projects) in the disciplines: transients in electric energy, mathematical problems of energy, electrical systems and networks, electrical stations and substations;
- 4 training practices: academic (study, electrical plumbing, wiring), production (production operating, 1 module).

State certification involves writing and defending bachelor degree thesis.

**Practical Training Places**

"Agronomy Research Station" PS, "Velykosnitynka Training and Research Farm named after O. Muzychenko" PS of NULES of Ukraine, "Vorsel Training and Research Farm" PS of NULE SU, "Volynoblenergo" PAT, "A.E.S. Rivneoblenergo" PAT, "Zhytomyroblenergo" PAT EC, "AES Kyivoblenergo" PAT, "Elektromerezhbud-5" Ltd, "Ukrenergo" GP West ES Lviv region, "Ukrenergo" DP, Cherkassky MEM, "Specelectro" Ltd Kyiv region, Novograd-Volynsky PEM, "Zhytomyroblenergo" PAT EC, "Trade House" ELVO-Ukraine " Ltd, "Pivdenna elektrotechnichna company" Ltd.

QUALIFICATION OF GRADUATES

**BACHELOR TECHNICAL ELECTRICIAN**

SPECIALITY CODE

**6.050701****Competencies acquired**

Theoretical (the humanities, social and economic sciences): basics of philosophy, psychology, pedagogy, contributing to the development of general culture and socialization of personality, aesthetic awareness and social skills.

Fundamental (mathematical and natural sciences): basic knowledge about fundamental laws of the electromagnetic field and the theory of electric and magnetic circuits; ability to master methods of mathematical modeling for analysis and synthesis of automatic control systems and electrical circuits; basic knowledge about the technology, distribution and transmission of electricity, methods of calculation of parameters of the elements of power supply systems for agricultural consumers.

Professional and practical: ability to use professional competencies in mathematics for statistical processing of the experimental data and mathematical modeling of electrical equipment and processes, ability to use professional knowledge and practical skills in the field of physics, electricity, magnetism, mechanics and thermodynamics to study electro-magnetic processes and phenomena, ability to use knowledge of chemistry to study electrochemical processes and phenomena.

**Academic rights of graduates**

Graduates can continue training for master's degree in specialties related to bachelor curriculum starting from the second year of study:

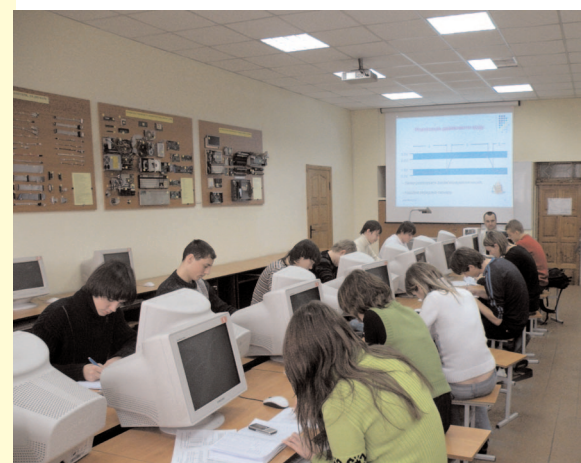
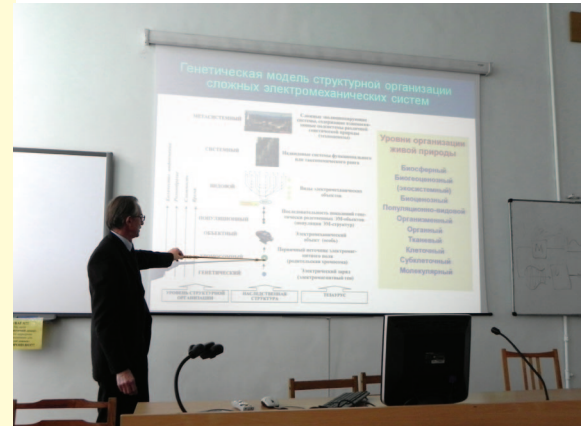
- 8.10010102 - "Electrical and Technical Systems of Power Supply"
- or specialties in the field of study "Specific Categories":
- 8.18010010 - "Quality, Standardization and Certification"
- 8.18010018 - "Administration Management"
- 8.18010020 - "Management of an Educational institution"
- 8.18010021 - "Pedagogy of Higher School"

**Employment**

Graduates can be employed in the field of agriculture and power systems according to the chosen profession at agricultural enterprises of different forms of ownership, research institutions of NAS of Ukraine and UAAS. According to the industry standard of higher education in Ukraine graduates are qualified as technician and electrician and can occupy the following positions: electrician at a station, district electrician; power technician.

**Proposed themes of bachelor thesis**

1. Reconstruction of Helmiavivska RTP 35/10 kV PAT "Cherkasyoblenergo".
2. Improving the power supply system and processes at Novohrad-Volynsky agricultural engineering plant
3. Modernization of switchgear 110 kV RTP 110/35/10 kV at Rokytno station of PAT NPP "Rivneoblenergo".
4. Research of the electric overvoltage field class 10 kV.
5. Justification of reconstruction of electricity group of settlements in Kamenetz-Podilsk district in the area of Boryshkivska RTP 110/10 kV6.
6. Development of 110 kV electricity network, with optimization of the voltage.
7. Electrical construction machinery during construction of multistoried building.
8. Analysis of influence of electromagnetic fields on the technical means that are within the zone of high-voltage power lines.
9. Design of power system for drill No.10 "Lutsenky" village Lutsenky, Lochvytsky district, Poltava region, Pyryatyn NHRE.
10. Microprocessor system of relay protection of power transformers TMN-4000/35 RTP 35/10 kV "Uzin" Bilotserkivskiy RP JSC "AES Kyivoblenergo".



SPECIALTY CODE

**6.050202**

AMOUNT OF ECTS CREDITS

**240**

FORM OF STUDY/TRAINING PERIOD, YEARS

**FULL-TIME****4****EXTRA-MURAL****5**

Bachelors can be trained in the basic institution of NULES of Ukraine (Kyiv) (licensed number: full-time - 50 / extra-mural- 50).

EDUCATION AND RESEARCH INSTITUTE

**POWER ENGINEERING AND AUTOMATION**

FACULTY

**POWER ENGINEERING AND AUTOMATION**

SPECIALITY

**AUTOMATION AND COMPUTER-INTEGRATED TECHNOLOGIES**

FIELD OF KNOWLEDGE

**AUTOMATION AND MANAGEMENT****Annotation of specialty**

Automation of the agricultural sector is an important factor in scientific and technological progress in agriculture. The demand for specialists in automation and computer-integrated technology is current due to the introduction of information technologies in all areas of agricultural production. Automated process control systems and production based on modern computer integrated process control systems are widely used on modern livestock farms.

**Structure of the curriculum**

The curriculum is composed on the basis of educational and professional training programs EQL "Bachelor" in the field "Automation and Computer Integrated Technologies".

Regulatory component of the curriculum consists of 3 cycles:

- Humanitarian and social-economic sciences,
- Mathematical and natural sciences,
- Professional and practical training,

5688 hours totally, 158 ECTS credits .

Optional component of the curriculum consists of elective subjects chosen by University 2232 hours and 720 hours chosen by students, 2952 hours totally, 82 ECTS credits.

The total number of hours for the educational and professional program is 8640, 240 ECTS credits.

The curriculum includes:

- 6 course papers (projects) in the disciplines: computer graphics, electrical engineering and electromechanics, design of automation systems; integrated project: electronics and microprocessor technology and metrology, process measurement and instrumentation; integrated project in disciplines: theory of automated management and hardware automation; integrated project in disciplines: basics of maintenance, programming real-time systems;
- 4 training practices: academic (technologies of production and processing of farm products, automated technologies, computer technologies), production (computer-integrated technologies).

State certification involves writing and defending bachelors thesis.

**Practical Training Places**

"Agronomic Research Station" PS of NULES of Ukraine , "Velykosnitynka Training and Research Farm named after Muzychenko" SS of NULES of Ukraine, "Vorzel" Training and Research Farm" SS of NULES of Ukraine, " Kalytianskyi experimental feed and premix plant" PAT, Ruby Rose Agricole Co. LTD, "Electrical-410", "AK "Kalyta" LTD, "Complex" Agromars" LTD, "NIBULON" LTD, "Agroprom" LTD, "CIT Altera" LTD.



QUALIFICATION OF GRADUATES

## BACHELOR JUNIOR ENGINEER IN AUTOMATION AND COMPUTER-INTEGRATED TECHNOLOGIES

SPECIALITY CODE

6.050202

### Competencies acquired

**Theoretical (the humanities, social and economic sciences):** basics of philosophy, psychology, pedagogy, contributing to the development of general culture and socialization of personality, aesthetic awareness and social skills.

**Fundamental (mathematical and natural sciences):** thorough knowledge in mathematics, theoretical and methodological principles of automation and computer integrated technologies to apply automation and computer-integrated technologies, basic knowledge of automation required to understand the basic principles of organization and functioning of apparatus of modern automation systems, basic characteristics.

**Professional and Practical:** knowledge of discrete structures and ability to apply modern methods of discrete mathematics in the process of analysis, synthesis and design of automatic control systems; knowledge of the laws of random phenomena and the ability to apply probability and statistical methods to solve professional tasks; general methodological principles of mathematical models, main stages of the design and ability to apply them in the analysis and synthesis of automatic systems for different purposes and objectives of organizational and economic management; ability to solve practical scientific and technical challenges of interdisciplinary character; knowledge of the theoretical and practical principles of the methodology and modeling technology in research, design and operation of automated systems, products.

### Academic rights of graduates

Graduates can continue training for master's degree in specialties related to bachelor curriculum starting from the second year of study:

8.05020201 - "Automated Management of technological processes"

or specialties in the field of study "Specific Categories":

8.18010010 - "Quality, Standardization and Certification"

8.18010018 - "Administration Management"

8.18010020 - "Management of an Educational Institution"

8.18010021 - "Pedagogy of Higher School"

### Employment

Graduates can be employed in the field of agriculture and energy systems in the chosen profession at agricultural enterprises of different forms of ownership, research institutions of NAS of Ukraine and UAAS. Specialists are able to perform the specified professional work in accordance with the State classifier of professions and can occupy the following positions: engineer of automated production control; engineer of computer systems, computer systems designer, computer engineer, engineer of equipment and automation.

### Proposed themes of bachelor thesis

1. Development of automatic regulation system of substrate moisture and air in the greenhouse.
2. Development of automatic regulation system of nutrient concentrations rank in the greenhouse.
3. Development of automatic regulation system of carbon dioxide in the greenhouse.
4. Development of microcontroller system of automatic temperature air control in the greenhouse.
5. Development of fussy automatic control system for coolant supply to the grain dryer.
6. Development of the automatic temperature control system for steam mixture during hydrolysis of plant material.
7. Improving automatic control system for biogas plant in dairy farms.



SPECIALTY CODE

**6.080101**

AMOUNT OF ECTS CREDITS

**235**

FORM OF STUDY/TRAINING PERIOD, YEARS

**FULL-TIME****4****EXTRA-MURAL****5**

Bachelors can be trained in basic institution of NULES of Ukraine (Kyiv) (licensed number: full / extra-mural: 90/85); "KATU" Southern Filial of NULES of Ukraine (Simferopol) (licensed number: full / extra-mural: 90/90);

EDUCATION AND RESEARCH INSTITUTE

**LAND RESOURCES AND JURISPRUDENCE**

FACULTY

**LAND MANAGEMENT**

SPECIALITY

**GEODESY, CARTOGRAPHY AND LAND MANAGEMENT**

FIELD OF KNOWLEDGE

**GEODESY AND LAND MANAGEMENT****Annotation of specialty**

Experts in geodesy, cartography and land management obtain the knowledge of topography, geodetic inventory work cadastre, technical mapping and plans for various industries, GIS. Students participate in making a variety of mapping materials, cadastral and topographical plans and maps, as well as create database for a variety of geographic information systems.

**Structure of the curriculum**

The curriculum is composed on the basis of educational and professional training programs EQL "Bachelor" in the field "Geodesy, Cartography and Land Management".

The regulatory component of the curriculum consists of 3 cycles:

- Humanitarian and social-economic sciences,
- Mathematical and natural sciences,
- Professional and practical training,

5094 hours totally, 141.5 ECTS credits.

The optional component of the curriculum consists of elective subjects chosen by University 1500 hours and 1866 hours chosen by students, 3366 hours totally, 93.5 ECTS credits.

The total amount of hours for the educational and professional program is 8472, 235 ECTS credits.

The curriculum includes:

- 5 course papers (projects): design of local roads, land registry, land planning, planning of rural settlements, surveying work in land management;
- 7 training practices: academic (computer science and programming, topography, agriculture, soil science, geodesy, photogrammetry and remote sensing, surveying works on land), manufacturing (land planning and land registry).

State certification involves passing the state exam.

**Practical Training Place**

Training and research farms of NULES of Ukraine, "Kyiv Research and Design Institute of Land Management" State Enterprise, Department of the State Land Committee in Kiev region, State Inspection for land use and control, Kyiv region, State Land Cadastre Centre.

QUALIFICATION OF GRADUATES

## BACHELOR IN GEODESY, CARTOGRAPHY AND LAND MANAGEMENT

SPECIALITY CODE

6.080101

### Competencies acquired

**Theoretical (the humanities, social and economic sciences):** ability to adequate and deep cognition of natural and social environment, ability to acquire new knowledge and skills, ability to self-development, life safe, legal rules to protect personality, their recreation, education, health care, environmental health and life, law enforcement, defense of social rights, life in emergencies.

**Fundamental (mathematical and natural sciences):** communicative skills in the native and foreign languages, learning skills, people skills, self-realization, critical thinking, teamworking, ability to collaborate with specialists in other sectors and international environment, ethical awareness.

**Professional and practical:** forward and backward calculation for precision polygon of different configurations, determining the coordinates of points way straight angle, inverse angular, linear and angular serif; calculating the elements of external orientation of space image for navigation, orbital and astronomical information; drafting process scheme for data collection for remote sensing, field and method of map digitization; creating thematic map method ranges from thematic variable field value attribute database; creating and processing of spatial information for cartographic tasks; definition of geocentric satellite coordinates on the basis of measured coordinates; determination of preliminary orbital elements with observations, coordinates of satellite triangulation, regulations of land relations under the given conditions; organization of land use in determined category; ensuring the rights of landowner, development of the general plan of the territory at the regional level, drafting the planning district, providing selling land for building entrepreneurs, project planning, analysis of market, legal, financial and tax environment, procedures and methods of construction surveying networks, performing mathematical processing of geodetic results measurement.

### Academic rights of graduates

Graduates can continue their training for master's degree in specialties related to bachelor curriculum starting from the second year of study:

8.010103 - "Land Management and Cadastre"

or specialties in the field of study "Specific Categories":

8.18010010 - "Quality, Standardization and Certification"

8.18010018 - "Administration Management"

8.18010020 - "Management of an Educational Institution"

8.18010021 - "Pedagogy of Higher School"

### Employment

Graduates can be employed at land management firms and organizations, regional, district administrations of the State Committee, centers, research and design institutes of land management.



SPECIALTY CODE

**6.030401**

AMOUNT OF ECTS CREDITS

**240**

FORM OF STUDY/TRAINING PERIOD, YEARS

**FULL-TIME****4****EXTRA-MURAL****5**

Bachelor training is conducted (licensed number: full-time / extra-mural):

- basic institution of NULES of Ukraine (75 / 115);
- "Mukacheve TICC" SS of NULES of Ukraine (0/40).

EDUCATION AND RESEARCH INSTITUTE

**LAND RESOURCES AND JURISPRUDENCE**

FACULTY

**LAW**

SPECIALITY

**JURISPRUDENCE**

FIELD OF KNOWLEDGE

**LAW**

#### Annotation of speciality

According to the State classifier of types of legal activities and to the requirements of labour market, the types of professional activities of Bachelor of Laws are: services provided mainly to the legal entities, activities in the field of law, notarial activities, activities of bailiffs, investigators and arbitrators, advice on commercial business and management, the courts and the prosecutor's bodies activity.

#### Structure of the curriculum

The curriculum is composed on the basis of educational and professional programs EQL "Bachelor" in the field of study "Law".

The regulatory component of the curriculum consists of 2 cycles:

- Humanitarian and social-economic,
- Fundamental and professionally-oriented

5 922 hours totally, 144.5 ECTS credits.

The optional component of the curriculum consists of 1026 hours courses chosen by the University and 1692 hours chosen by students, 2718 hours totally, 72.5 ECTS credits.

The total amount of hours for the educational and professional program is 8640, 240 ECTS credits.

The curriculum includes:

- 6 course papers in: the theory of state and law, constitutional law, criminal law, civil law, labor law, agricultural law.
- 4 training practices: academic (in judicial and law enforcement agencies, administrative law), on-the-job training (in civil right, civil procedure).

State certification involves passing the state exam.

#### Practical Training Places

Ministry of Agrarian Policy and Food of Ukraine, Ministry of Ecology and Natural Resources of Ukraine, Chief Agricultural Administration of Kyiv Regional State Administration, legal services and divisions of the ministries and other state authorities, state Water Resources Agency of Ukraine, the State Agency for Land Resources of Ukraine, the State Agency of forest resources of Ukraine, the State agency of Fishery of Ukraine, local administrations in Kyiv, the district administration of justice, local authorities, prosecutors, state judicial Administration of Ukraine local courts, the Commercial Court, public notaries and private notaries, attorney associations, legal agency of NULES of Ukraine, Production Company of NULES of Ukraine "Educational and Experimental Farm Vorzel"

QUALIFICATION OF GRADUATES

**BACHELOR IN LAW**

SPECIALITY CODE

**6.030401****Competencies acquired**

**Theoretical (the humanities, social and economic knowledge):** ability to adequate and deep cognition of natural and social environment, self-cognition, learning skills, ability to self-development, knowledge about the law, its basic principles and trends, different approaches to dealing with legal cases.

**Fundamental (professionally oriented knowledge):** knowledge of basic sciences, the cycle of disciplines of juridical and scientific training: theory and history of law, philosophy of law, constitutional, civil, criminal, administrative law.

**Professional and practical**

**General practice:** knowledge of legal system, laws, ability to analyse every day situations in terms of law.

**Civil Procedure:** ability to review and resolve civil cases to protect affected, unrecognized or disputed rights, freedoms and legitimate interests of individuals, the rights and interests of legal persons, state interests.

**Criminal Procedure:** ability to rapid and full disclosure of crimes, exposure of perpetrators and ensuring the correct application of the law towards them.

**Economic Procedure:** ability to appeal to the Commercial Court in accordance with the established jurisdiction on economic affairs to protect the violated or disputed rights and interests and to take measures provided by law to prevent violations.

**Administrative Procedure:** knowledge about administrative cases, the procedure for appeal to the administrative courts and the procedure for the administrative proceedings.

**Academic Rights of graduates**

Graduates have the right to apply for master's degree in specialties, related to the curriculum of bachelor programs starting from the second year of study:

8.03040101 - "Jurisprudence" ("Law")

or "Specific Categories":

8.18010010 - "Quality, Standardization and Certification"

8.18010018 - "Administration Management"

8.18010020 - "Management of an Educational Institution"

8.18010021 - "Pedagogy of Higher School"

**Employment**

Ministry of Agrarian Policy and Food of Ukraine, Ministry of Ecology and Natural Resources of Ukraine, Chief Agricultural Administration Department of Kyiv Regional State Administration, legal services and divisions of the ministries and other state authorities, state Water Resources Agency of Ukraine, the State Agency for Land Resources of Ukraine, the State Agency for forest resources of Ukraine, the State agency of Fishery of Ukraine, local administrations in Kyiv, the district administration of justice, local authorities, prosecutors, local courts, the Commercial Court, public notaries and private notaries, lawyer associations.



SPECIALTY CODE

**6.030504**

AMOUNT OF ECTS CREDITS

**240**

FORM OF STUDY/TRAINING PERIOD, YEARS

**FULL-TIME****4****EXTRA-MURAL****5**

Bachelor training is conducted

(licensed number:  
full-time / extra-mural):

- basic institution of NULES of Ukraine (125 / 165);
- "CATU" Southern Filial of NULES of Ukraine (40/40);
- "Berezhany agrotechnical institute" SS of NULES of Ukraine (40/200);
- "Bobrovytsky TICC" SS of NULES of Ukraine

EDUCATION AND RESEARCH INSTITUTE

**BUSINESS**

FACULTY

**ECONOMICS**

SPECIALITY

**ECONOMICS OF ENTERPRISE**

FIELD OF KNOWLEDGE

**ECONOMICS AND ENTREPRENEURSHIP****Annotation of speciality**

Training provides specialists with a high level of scientific, economic and organizational activities at an enterprise. Graduates will be able to develop measures to improve productivity, efficiency and profitability, product quality, cost reduction, productivity growth in order to achieve effective results under reasonable cost of material, labor and financial resources and organize their implementation.

**Structure of the curriculum**

The curriculum is composed on the basis of educational and professional training programs EQL "Bachelor" in the field 6.030504 - "Economics of Enterprise".

The regulatory component of the curriculum consists of 3 cycles:

- Humanitarian,
- Natural-scientific and general economic,
- Professional and practical

5 724 hours totally, 159 ECTS credits.

The optional component of the curriculum consists of 3 courses of humanitarian, natural-scientific and general economic, professional and practical preparation 2916 hours totally, 81 ECTS credits.

The total amount of hours for the educational and professional program is 8640, 240 ECTS credits.

The curriculum includes:

- 5 course papers in: statistics, economics and mathematical modeling, agricultural economics, economic analysis and labor economics and labor relations, organization and planning of production at agrarian enterprises
- 10 raining practices: academic (technology of livestock production, crop production technology, mechanization in crop production, agriculture and soil science, information science, technology processing and storage of agricultural products, databases and database management systems, stock exchange stock market), on-the-job training (economics of agriculture and labor economics and labor relations).

State certification involves passing the state examination in political economy, microeconomics, macroeconomics, economic history and economic thought and the complex state exam in the speciality.

**Practical Training Places**

Production Enterprise "Velykosnitynka Training and Research Farm named after Muzychenko" of NULES of Ukraine (Kyiv region) Production Enterprise "Agronomic Research Station" of NULES of Ukraine (Kyiv region) Production Enterprise "Vorzel" Training and Research Farm of NULES of Ukraine (Kyiv region) Production Enterprise "Boyarka Forest Research Station" of NULES of Ukraine (Kyiv region), "Crimean Agrotechnical University" Southern Filial of NULES of Ukraine; Production Enterprise "Nemishayevo Agrotechnical College" of NULES of Ukraine, State Enterprise "Training and Research Poultry Breeding Plant named after Frunze" of NULES of Ukraine (Crimea), etc.

QUALIFICATION OF GRADUATES

**BACHELOR IN ECONOMICS OF ENTERPRISE**

SPECIALITY CODE

**6.030504****Competencies acquired**

**Basic:** ability to obtain adequate and deep knowledge of natural and social environment, self-cognition, ability to develop and use mathematical skills, mathematical knowledge, computer skills, learning skills, ability to collaborate with experts in other sectors and develop approaches to professional activities.

**Professional:** knowledge of basic sciences, including cycle of natural sciences and economic disciplines: economic modeling, business economics, management, marketing, finance, labor economics and social and labor relations, international economics, national economics, regional economics, political economy, microeconomics, macroeconomics, economic history and economic thought, higher mathematics, probability theory and mathematical statistics, information science, features and principles of business operation in a turbulent relationship of macro-, meso- and microenvironment factors, methods of analysis, planning, production, accounting and statistics, control and information functions to ensure the efficient operation of enterprises of different types and forms of ownership.

**Fundamental and professional:** knowledge about the organization of financial and accounting operations, financial reporting, internal organization of economic control, sector activity and department responsibility; knowledge of planning and economic policies of the enterprise; financial planning estimates of the company or business unit, structure of planning and economic department and personnel, job responsibilities at planning and economic department, improvement of information management.

**Academic Rights of graduates**

Graduates have the right to apply for master programs in the specialties, related to the curriculum of bachelor programs starting from the second year of study:

8.03050401 - "Economics of enterprise"

or "Specific categories":

8.18010010 - "Quality, Standardization and Certification"

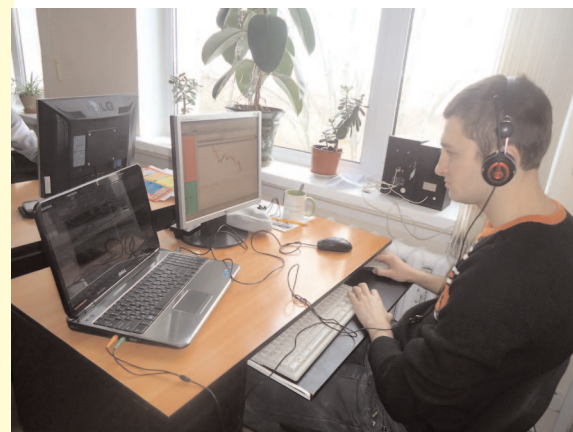
8.18010018 - "Administration Management"

8.18010020 - "Management of an Educational Institution"

8.18010021 - "Pedagogy of Higher School"

**Employment**

Chief economist, economist of planning and finance department, economist of the organization of labor and payment department, Head of the laboratory of the scientific organization and production management, economist, economist for planning, economist for contractual claims work, financial economist, manager and assistant of economic departments of companies, associations, firms of agricultural enterprises of various forms of ownership, etc.



SPECIALTY CODE

**6.030509**

AMOUNT OF ECTS CREDITS

**240**

FORM OF STUDY/TRAINING PERIOD, YEARS

**FULL-TIME****4****EXTRA-MURAL****5**

Bachelor training is conducted (licensed number: full-time / extra-mural):

- basic institution of NULES of Ukraine (150/215);
- "CATU" Southern Filial of NULES of Ukraine (90/80);
- "Berezhany Agrotechnical Institute" SS of NULES of Ukraine (75/100)
- "Nizhyn Agricultural Institute" SS of NULES of Ukraine (40/25)
- "Bobrovytsia CEM" SS of NULES of Ukraine (-/50);
- "Zalishchyky Agricultural College named after E. Khraplyvyyi" SS of NULES of Ukraine (50/50)
- "Irpri Economic College" SS of NULES of Ukraine (200/200)
- "Crimean agricultural college" SS of NULES of Ukraine (25/25);
- "Mukacheve educational information and consulting center" SS of NULES of Ukraine (-/25);

EDUCATION AND RESEARCH INSTITUTE

**BUSINESS**

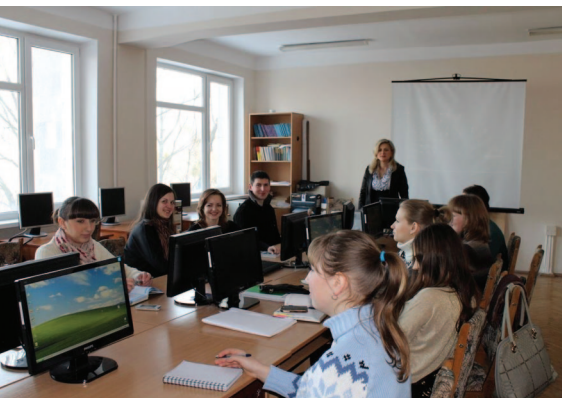
FACULTY

**ECONOMICS**

SPECIALITY

**ACCOUNTING AND AUDIT**

FIELD OF KNOWLEDGE

**ECONOMICS AND ENTREPRENEURSHIP****Annotation of speciality**

Training specialists in "Accounting and Audit" provides the study of theory and practice of accounting and audit in the agrarian sector of the economy. A focus is to direct students to work independently, develop creativity to find effective solutions to address the issues under investigation, acquisition of skills to work with scientific literature.

**Structure of the curriculum**

The curriculum is composed on the basis of educational and professional training programs EQL "Bachelor" in the field 6.030509 - "Accounting and Audit".

The regulatory component of the curriculum consists of 3 cycles:

- Humanitarian,
- Natural-scientific and general economic,
- Professional and practical

5 724 hours totally, 159 ECTS credits.

The optional component of the curriculum consists of 3 courses of humanitarian, natural-scientific and general economic, professional and practical preparation - 2 916 hours totally, 81 ECTS credits.

The total amount of hours for the educational and professional program is 8640, 240 ECTS credits.

The curriculum includes:

- 4 course papers in: statistics, agricultural economics, economic analysis and labor economics and labor relations, organization and planning of production in agrarian formations, auditing
- 10 training practices: academic (technology in livestock production, crop production technology, mechanization in crop production, agriculture and soil science, information science, technology processing and storage of agricultural products, statistics; AWP accountant, stock exchange stock market), on-the-job training (financial accounting).

State certification involves passing the state examination in political economy, microeconomics, macroeconomics, economic history and economic thought and the complex state exam in the speciality.

**Practical Training Places**

Production Enterprise "Velykosnitynske Training and Research farm named after O. V. Muzychenko" of NULES of Ukraine (Kyiv region), Production Enterprise "Agronomic Research Station" of NULES of Ukraine (Kyiv region), Production Enterprise "Vorzel" Training and Research Farm of NULES of Ukraine (Kyiv region), Production Enterprise "Boyarka Forest Research Station" of NULES of Ukraine (Kyiv region), "Crimean Agrotechnical University" South Branch of NULES of Ukraine; Production Enterprise "Nemishayev Agricultural College" of NULES of Ukraine, etc.



QUALIFICATION OF GRADUATES

**BACHELOR IN ACCOUNTING AND AUDIT**

SPECIALITY CODE

**6.030509****Competencies acquired****Theoretical (the humanities, social and economic knowledge)**

**Social:** constructive management of feelings, interpersonal skills, critical thinking, team-working, ability to collaborate with experts from other sectors and people of different cultures, commitment to ethical values; ability to apply creative approaches to professional activity

**Fundamental :**(mathematical and natural science)

general scientific: knowledge of the basics of fundamental disciplines, including cycle of disciplines in the field of economy: economic modeling, business economics, management, marketing, finance, labor economics and social-labor relations, international economics, national economics, regional economics, political economy, microeconomics, macroeconomics, economic history and economic thought, higher mathematics, theory of probability and mathematical statistics, computer science.

**Practical:** knowledge about the features and principles of operation of businesses in a turbulent relationship under macro-, meso- and microenvironment factors, the role of a specialist in economics to coordinate successful development of businesses.

**Professional and practical**

**Financial:** knowledge about the formation of enterprise cash flows, ability to optimize their revenues over time and areas of investment in order to improve the solvency of financial stability and profitability.

**Controlling:** knowledge about the implementation of control and analytical functions in business, ensuring the accuracy and reliability of business operations; providing fulfillment of work flow schedule.

**Informational:** ability to arrange information database, create economic information database.

**Analytical:** knowledge about preventive operational and efficient business operations and decisions, ability to use effective methodological procedures and methods of economic analysis to complex evaluation of problem situations and operational solutions

**Academic Rights of graduates**

Graduates have the right to apply for master's degree in specialties related to the curriculum of bachelor programs starting from the second year of study:

8.03050901 - "Accounting and Audit"

or "Specific categories":

8.18010010 - "Quality, Standardization and Certification"

8.18010018 - "Administration Management"

8.18010020 - "Management of an Educational Institution"

8.18010021 - "Pedagogy of Higher School"

**Employment**

Chief Accountant, Deputy Chief Accountant, Senior Accountant, Head cashier, accountant of the 1st and the 2nd categories, accountant, auditor, assistant auditor; leading certified public accountant, certified public accountant of the 1st and 2nd categories, accountant-auditor, expert accountant, chief auditor, chief cashier, etc.



SPECIALTY CODE

**6.030508**

AMOUNT OF ECTS CREDITS

**240**

FORM OF STUDY/TRAINING PERIOD, YEARS

**FULL-TIME****4****EXTRA-MURAL****5**

Bachelor training is conducted  
(licensed number:  
full-time / extra-mural):

- basic institution of NULES of Ukraine (150 / 140);
- "CATU" Southern Filial of NULES of Ukraine ( 45/30);
- "Bobrovytskyi CEM" SS of NULES of Ukraine (- / 50).

EDUCATION AND RESEARCH INSTITUTE

**BUSINESS**

FACULTY

**ECONOMICS**

SPECIALITY

**FINANCE AND CREDIT**

FIELD OF KNOWLEDGE

**ECONOMICS AND ENTREPRENEURSHIP****Annotation of speciality**

specialists in "Finance and Credit" are trained to provide a high level of financial and management accounting: to prepare financial statements, to determine the financial condition of the company and to increase its efficiency, to exercise cash control, a rational and efficient use of material, labor and financial resources.

**Structure of the curriculum**

The curriculum is composed on the basis of educational and professional programs EQL "Bachelor" in the field 6.030508 - " Finance and Credit".

The regulatory component of the curriculum consists of 3 cycles:

- Humanitarian,
- Natural-scientific and general economic,
- Professional and practical

5724 hours totally, 159 ECTS credits.

The optional component of the curriculum consists of 3 courses of humanitarian, natural-scientific and general economic, professional and practical preparation 2916 hours totally, 81 ECTS credits.

The total number of hours for the educational and professional program is 8640, 240 ECTS credits.

The curriculum includes:

- 5 course papers in: statistics, money and credit, finance, corporate finance and agricultural economics, financial activities of businesses, organization and planning of production at agrarian enterprises.
- 10 training practices: academic (technology in livestock production, crop production technology, mechanization in crop production, agriculture and soil science, information science, technology processing and storage of agricultural products, statistics; AWP accountant, stock exchange, stock market), on-the-job training (finance in the agricultural enterprise).

State certification involves passing the state examination in political economy, microeconomics, macroeconomics, economic history and economic thought and the complex state exam in the specialty.

**Practical Training Places**

Production Enterprise "Velykosnitynske Training and Research farm named after O. V. Muzychenko" of NULES of Ukraine (Kyiv region); Production Enterprise "Agronomic Research Station" of NULES of Ukraine (Kyiv region); Production Enterprise "Vorzel" Training and Research Farm of NULES of Ukraine ( Kyiv region); Production Enterprise "Boyarka Forest Research Station" of NULES of Ukraine (Kyiv region); "Crimean Agrotechnical University" Southern Filial of NULES of Ukraine; Production Enterprise "Nemishayev Agricultural College" of NULES of Ukraine, etc.

QUALIFICATION OF GRADUATES

**BACHELOR IN FINANCE AND CREDIT**

SPECIALITY CODE

**6.030508****Competencies acquired**

**Basic:** ability to obtain adequate and deep knowledge of natural and social environment, self-cognition and self-development, ability to develop and use mathematical skills, computer skills, successful creative approaches to professional activities, ability to work with experts from other industries.

**Professional:** knowledge in the basic sciences, including cycle of disciplines of natural scientific training of specialists: economic modeling, business economics, management, marketing, finance, labor economics and social and labor relations, international economics, national economics, regional economic, political economy, microeconomics, macroeconomics, economic history and economic thought, higher mathematics, probability theory and mathematical statistics, information science, features and principles of operation of businesses in a turbulent relationship under macro-, meso- and microenvironment factors, methods of analysis, planning, production, accounting and statistics, control and information functions to ensure the efficient operation of enterprises of different types and forms of ownership.

**Professional:** ability to determine the financial policy of a company, to plan financial and economic strategies of enterprises of any form of ownership, to improve information management; knowledge about organization of financial and accounting operations, financial reporting, organization of internal economic control, organization of sector activity, departments, organization of work of senior economist; knowledge about the formation of enterprise cash flows, optimization of revenues over time and areas of investment in order to improve financial stability and profitability of enterprises.

**Academic Rights of graduates**

Graduates have the right to apply for master's degree in the specialty, related to the curriculum of bachelor programs, starting from the second year of study:

8.03050801 - "FINANCE AND CREDIT "

or specialties "Specific categories":

8.18010010 - "Quality, Standardization and Certification"

8.18010018 - "Administration Management"

8.18010020 - "Management of an Educational Institution"

8.18010021 - "Pedagogy of Higher School"

**Employment**

Financier, economist at financial departments, head of the laboratory of scientific organization and management of production, economist, economist in planning, economist in contractual claims work, financial economist, manager and assistant of financial departments of companies, associations, firms, agricultural enterprises of various forms of ownership, etc.



SPECIALTY CODE

**6.030507**

AMOUNT OF ECTS CREDITS

**240**

FORM OF STUDY/TRAINING PERIOD, YEARS

**FULL-TIME****4****EXTRA-MURAL****5**

Bachelor training is conducted in the basic institution of NULES of Ukraine (Kyiv) (licensed number: full-time 60/ extra-mural 60)

EDUCATION AND RESEARCH INSTITUTE

**BUSINESS**

FACULTY

**AGRICULTURAL MANAGEMENT**

SPECIALITY

**MARKETING**

FIELD OF KNOWLEDGE

**ECONOMICS AND ENTREPRENEURSHIP****Annotation of speciality**

Training provides students with the knowledge of the market situation and trends in market development, ability to improve the effectiveness of entities, and government regulation and control, to determine quickly the main directions of development of the market, to predict its trends and to develop measures to adapt to them.

**Structure of the curriculum**

The curriculum is composed on the basis of educational and professional programs EQL "Bachelor" in the field 6.030508 - "Marketing".

The regulatory component of the curriculum consists of 3 cycles:

- Humanitarian,
- Mathematical and natural sciences,
- Professional and practical

7 056 hours totally, 196 ECTS credits.

The optional component of the curriculum consists of 1404 hours courses chosen by the University and 324 hours chosen by students, 1728 hours totally, 48 ECTS credits.

The total number of hours for the educational and professional program is 8784, 240 ECTS credits.

The curriculum includes:

- 6 course papers in: microeconomics, labor economics and labor relations, statistics, agricultural marketing and business economics, marketing pricing policy, marketing research.
- 9 training practices: academic (arable farming, farm machinery, livestock, mechanization of livestock farms, social communication, economic informatics, technology of storage and processing of agricultural products, exchange activity), on-the-job training (marketing).

State certification involves passing the state examination

**Practical Training Places**

Educational, scientific and educational research and production laboratories of the basic institution of the University (Kyiv) and its subdivisions, educational and research facilities of Production Enterprise "Velykosnitynske Training and Research farm named after O. V. Muzychenko" of NULES of Ukraine (Kyiv region)

"Agronomic Research Station", "Vorzel", leading companies of Ukraine, including: LLC "Monsanto Ukraine" private equity firm "Myronivsky bread product", Limited Liability "Evroagromarket", central and regional government administration. Every year about 10% of students do practical training at relevant agricultural enterprises and farms abroad.

QUALIFICATION OF GRADUATES

**BACHELOR IN MARKETING**

SPECIALITY CODE

**6.030507****Competencies acquired**

**Theoretical** (the humanities, social and economic knowledge): communication skills in foreign language, critical thinking, teamworking, interpersonal skills, ability to collaborate with experts from other sectors and people of different cultures, ability to work in an international environment; commitment to ethical values.

**Fundamental** (the mathematical and natural sciences) ability to develop and use mathematical skills, computer skills, knowledge of information management skills, skills to apply modern management methods, the use of the legislative principles, knowledge of technological issues of an enterprise, legal basis on protection of an individual, their work, recreation, education, health care, the environment, health and life.

**Professional and practical:** constructive management of feelings, ability to solve problems, capacity for innovation, ability to gain knowledge of current trends on the market, ability to manage, to train and develop employees, to build team working to operate marketing departments, knowledge of the theoretical and practical aspects of market and its influence on the development of a company and society as a whole, to determine the role of an expert marketer in the administrative and economic system of the state.

**Academic Rights of graduates**

Graduates have the right to apply for master's degree in the specialty, related to the curriculum of bachelor programs, starting from the second year of study:

8.03050701 - "MARKETING"

or "Specific categories":

8.18010010 - "Quality, Standardization and Certification"

8.18010018 - "Administration Management"

8.18010020 - "Management of an Educational Institution"

8.18010021 - "Pedagogy of Higher School"

**Employment**

All graduates are employed at the enterprises and organizations of the agrarian sector and public authorities and can occupy the following positions: head of departments of Logistics (Deputy Head of External Cooperation, Deputy Head of Logistics), manager of small businesses, deputy manager of an agency of commercial or advertising agency, etc.). economist in pricing, international trade economist, a PR specialist, marketing specialist, specialist in public relations and the media, Head of marketing and advertising, PR manager of a small business in wholesale and retail trade, manager in advertising.



SPECIALTY CODE

**6.030601**

AMOUNT OF ECTS CREDITS

**240**

FORM OF STUDY/TRAINING PERIOD, YEARS

**FULL-TIME****4****EXTRA-MURAL****5**

Bachelor training is conducted  
(licensed number:  
full-time / extra-mural):

- basic institution of NULES of Ukraine (200 / 250);
- "CATU" Southern Filial of NULES of Ukraine (50/40);
- "Bobrovytskyi CEM";

EDUCATION AND RESEARCH INSTITUTE

**BUSINESS**

FACULTY

**AGRICULTURAL MANAGEMENT**

SPECIALITY

**MANAGEMENT**

FIELD OF KNOWLEDGE

**MANAGEMENT AND ADMINISTRATION****Annotation of speciality**

The purpose of training is to provide businesses and organizations of environmental and agribusiness with highly skilled specialists of primary level of management of different structural units, operating systems, and processes. The qualification of Bachelor in Management and Administration Manager allows graduates to quickly adapt to internal economic relations at enterprises and organizations, to develop and implement management system elements, to establish an effective system of motivation.

**Structure of the curriculum**

The curriculum is composed on the basis of educational and professional programs EQL "Bachelor" in the field of "Management".

The regulatory component of the curriculum consists of 3 cycles:

- Humanitarian and socio-economic,
- Mathematical and natural sciences,
- Professional and practical

6,984 hours totally, 194 ECTS credits.

The optional component of the curriculum consists of 1,008 hours elective courses chosen by the University and 504 hours chosen by students, 1,512 hours totally, 42 ECTS credits.

The total number of hours for the educational and professional program is 8,640, 240 ECTS credits.

The curriculum includes:

- 6 course papers in: Microeconomics, Labor Economics and Labor Relations, Statistics, Management of Agriculture and Economics and Finances, foreign-trade activity of an enterprise, Personnel Management.
- 10 training practices: academic (Farming, Farm Machinery, Livestock, Mechanization of Livestock farms, Introduction to Specialty, Information Science, Technology of Storage and Processing of Agricultural products, Stock Exchange activity), on-the-job training (Management of Agriculture, Agricultural Economics).

State certification involves passing the state examination

**Practical Training Places**

Educational, scientific and educational research and production laboratories of the basic Institution of the University (Kyiv) and its subdivisions, educational and research farms of Production Enterprise "Velykosnitynske Training and Research farm named after O.V. Muzychenko" of NULES of Ukraine (Kyiv region)

"Agronomic Research Station", "Vorzel", leading companies of Ukraine, including: LLC "Monsanto Ukraine" private equity firm "Myronivskiy khlipoproduct", central and regional government bodies. Every year about 10% of students do practical training at relevant agricultural enterprises and farms abroad.

QUALIFICATION OF GRADUATES

**BACHELOR IN MANAGEMENT,  
BUSINESS MANAGER-ADMINISTRATOR**

SPECIALITY CODE

**6.030601****Competencies acquired**

**Theoretical** (in the humanities, social and economic knowledge): foreign language skills, critical thinking, teamworking, interpersonal skills, ability to collaborate with specialists in other fields of the economy, cross-cultural awareness, ability to work in an international environment, ethical values awareness.

**Fundamental** (in mathematical and natural sciences): ability to develop and use mathematical skills, computer skills, proficiency in information management, modern management methods, knowledge about the legislation, technological issues of enterprise, legal rules to protect the individual, their work, recreation, education, health care, the environment, health and life.

**Professional and practical:** ability to control themselves, to set clear personal goals, to solve problems, to implement innovations, to influence others, knowledge of modern management approaches, ability to manage, train and develop subordinates; ability to form working groups, to manage an enterprise, knowledge of theoretical and practical aspects of management decisions and understanding of their impact on the development of both the company and the society as a whole, to determine the place of professional managers in the administrative and economic system of the state.

**Academic Rights of graduates**

Graduates have the right to apply for master's degree in the specialty, related to the curriculum of bachelor programs, starting from the second year of study:

8.03060101 - "Management and Administration"

8.03060104 - "Foreign Trade Activity Management"

or "Specific categories":

8.18010010 - "Quality, Standardization and Certification"

8.18010018 - "Administration Management"

8.18010020 - "Management of an Educational Institution"

8.18010021 - "Pedagogy of Higher School"

**Employment**

All graduates are employed at the enterprises and organizations of the agrarian sector and public authorities and can occupy the following positions: heads of production units in commercial service, the officials of the central government, staff of local authorities, managers of small businesses, deputy chairman, managers of commercial activity and management (manager of public relations, advertising manager, HR manager, manager of administrative activities), economists (economist on contract and pretentious works, economist- advisor, advisor on economic affairs, a columnist on economic issues, an economist in logistics), assistant managers.



SPECIALTY CODE

**6.030502**

AMOUNT OF ECTS CREDITS

**240**

FORM OF STUDY/TRAINING PERIOD, YEARS

**FULL-TIME****4****EXTRA-MURAL****5**

Bachelor training is conducted in the basic institution of NULES of Ukraine (Kyiv) (licensed number: full-time 50/ extra-mural 50)

EDUCATION AND RESEARCH INSTITUTE

**INFORMATION AND TELECOMMUNICATION SUPPORT OF AGROINDUSTRIAL AND ENVIRONMENTAL PROTECTION BRANCHES OF ECONOMY**

FACULTY

**COMPUTER SCIENCES AND ECONOMIC CYBERNETICS**

SPECIALITY

**ECONOMIC CYBERNETICS**

FIELD OF KNOWLEDGE

**ECONOMICS AND BUSINESS ACTIVITY**



#### Annotation of speciality

Training in the direction "Economic Cybernetics" is a unique combination of computer and economic disciplines. It provides the opportunity to work in different sectors of the economy without additional costly education and training. The graduates are professional economists keen on information technologies, able to manage the workforce and competent in business (entrepreneurial) activity.

#### Structure of the curriculum

The curriculum is composed on the basis of educational and professional programs EQL "Bachelor" in the field of "Economic Cybernetics".

The regulatory component of the curriculum consists of 3 cycles:

- Humanitarian and socio-economic,
- Mathematical and natural sciences,
- Professional and practical

5724 hours totally, 159 ECTS credits.

The optional component of the curriculum consists of 1152 hours elective courses chosen by the University and 432 hours chosen by students 2916 hours totally, 81 ECTS credits.

The total number of hours for the educational and professional program is 8 640, 240 ECTS credits.

The curriculum includes:

- 6 course papers in: Microeconomics, Economic Cybernetics, Statistics, Technology of Database Administration and Designing, Modeling Economics, Information Technology in Managing the Economy;
- 3 practical training: academic (in Computer Technology, Programming, Technology of Crop Production and Animal Husbandry, Optimization Methods and Models).

State certification involves a complex state exam in the speciality, defense of bachelor thesis.

#### Practical Training Places

Educational, scientific and production laboratory of Ukrainian educational institute of information and telecommunication support of agricultural and environmental sectors of the economy of Ukraine; training and information center of computer technologies of NULES of Ukraine; center of Distance Education Technologies of NULES of Ukraine



QUALIFICATION OF GRADUATES

**BACHELOR IN ECONOMIC CYBERNETICS**

SPECIALITY CODE

**6.030502****Competencies acquired**

**Theoretical** (the humanities, social and economic knowledge): basic knowledge of philosophy, psychology, pedagogy, contributing to the development of general culture and socialization, aesthetic values awareness and ability to use them in their professional and social activities.

**Fundamental** (mathematical and natural science): knowledge of fundamental and applied mathematics and ability to apply it in research and professional activities, scientific and methodological foundations and standards in information technology, ability to apply these skills in the development and integration of systems, products and services of information technologies.

**Professional and practical:** basic knowledge of predesign analysis and modeling of economic objects and problems, information and analytical support for business processes, ability to apply systematic research during IT project management, to fulfill system modeling, systematic analysis of informatization objects, development of artificial intelligence systems and techniques, decision-making, ability to project activities in their professional field, to build and use economic and mathematical model for the description of objects and processes, to fulfill their qualitative analysis, to develop predictive models of economic processes and systems, planning of activity of information enterprises (units).

**Academic Rights of graduates**

Graduates have the right to apply for master programs in the specialty, related to the curriculum of bachelor programs, starting from the second year of study:

8.03060101 - "Economic Cybernetics",

or "Specific categories":

8.18010010 - "Quality, Standardization and Certification"

8.18010018 - "Administration Management"

8.18010020 - "Management of an Educational Institution"

8.18010021 - "Pedagogy of Higher School"

**Employment**

The graduates can be employed as heads of small businesses, heads of the analytical center for handling the economic, financial and accounting information, heads of departments of information technology, computer network administrators, administrators for tasks and systems, database administrators, computer systems analyst, etc.

**Supposed themes of theses**

1. Economic-mathematical modeling of land use.
2. Simulation modeling of banking.
3. Modeling of manufacturing processes in the agricultural sector on the basis of multi-objective optimization.
4. Ecological and economic modeling of agricultural areas.
5. Efficiency model regulation of domestic food market in the WTO.
6. Risk assessment of food security in an open economy.
7. Simulation and optimization of business activities of the corporate type.
8. Predicting range of consumer demand in Ukraine.
9. Modeling of processes of soil nutrition.
10. Modeling of investment attractiveness and risks of separate branches of the agricultural sector.



SPECIALTY CODE

**6.050101**

AMOUNT OF ECTS CREDITS

**240**

FORM OF STUDY/TRAINING PERIOD, YEARS

**FULL-TIME****4****EXTRA-MURAL****5**

Bachelor training is conducted in the basic institution of NULES of Ukraine (Kyiv) (licensed number: full-time 50/ extra-mural 50)

EDUCATION AND RESEARCH INSTITUTE

**INFORMATION AND TELECOMMUNICATION SUPPORT OF AGROINDUSTRIAL AND ENVIRONMENTAL PROTECTION BRANCHES OF ECONOMY**

FACULTY

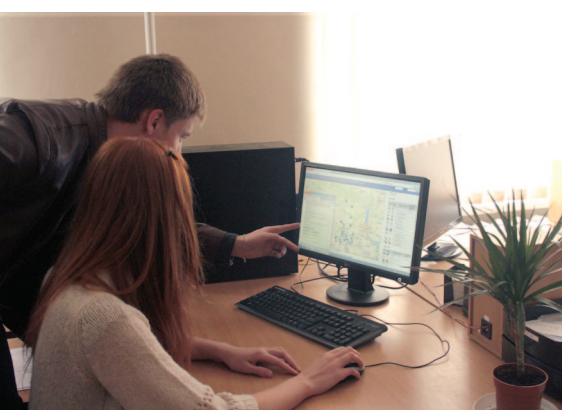
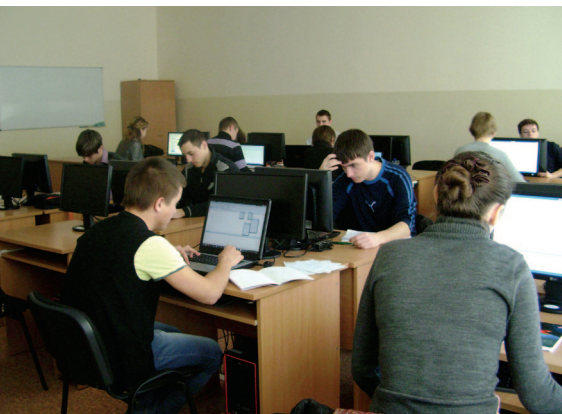
**COMPUTER SCIENCES AND ECONOMIC CYBERNETICS**

SPECIALITY

**COMPUTER SCIENCES**

FIELD OF KNOWLEDGE

**COMPUTER SCIENCE AND ENGINEERING**



#### Annotation of speciality

Computer Science and Engineering is the branch of knowledge, science, technology and industry, which includes research into the theoretical and methodological principles, development and creation of technologies of information industry. In Ukraine, IT professionals are trained in a variety of fields, each of which covers a range of professions. The graduate of EQL "Bachelor" in "Computer science" has general scientific competencies in such areas as mathematics, programming, systems engineering, computer engineering. The system of education in computer science includes a number of components, open in its interaction with the external environment, dynamic in the development, purposeful and complex by means of determination.

#### Structure of the curriculum

The curriculum is composed on the basis of educational and professional programs EQL "Bachelor" in the field of "Computer Sciences".

The regulatory component of the curriculum consists of 3 cycles:

- Humanitarian and social-economic,
- Mathematical and natural sciences,
- Professional and practical

6 282 hours totally, 174.5 ECTS credits.

Then optional component of the curriculum consists of 1 530 hours elective courses chosen by the University and 828 hours chosen by students, 2 358 hours totally, 65.5 ECTS credits.

The total number of hours for the educational and professional program is 8 640, 240 ECTS credits.

The curriculum includes:

- 7 course papers in: Algorithmization and Programming, Systems and Technology of Database Management, Computer Graphics, Modeling of Systems, Computer Networks, Designing of Information Systems, Information Management Systems;
- 3 training practices: academic (in Computer Technology, Programming, Design and Development of Information Systems).

State certification involves writing and defending bachelor theses.

#### Practical Training Places

Educational, scientific and production laboratory of Ukrainian educational institute of information and telecommunication support of agricultural and environmental sectors of the economy of Ukraine; Knowledge and information center of computer technologies of NULES of Ukraine; center of Distance Education Technologies of NULES of Ukraine

QUALIFICATION OF GRADUATES

**BACHELOR – IT SPECIALIST**

SPECIALITY CODE

**6.050101****Competencies acquired**

**Theoretical** (the humanities, social and economic knowledge): basic knowledge of philosophy, psychology, pedagogy, contributing to the development of general culture and socialization, aesthetic values awareness and ability to use them in their professional and social activities.

**Fundamental (mathematical and natural science):** knowledge of fundamental and applied mathematics and ability to apply it in research and professional activities; theoretical, methodological and algorithmic foundations of information technology, use of mathematical tools to solve applied and scientific tasks in the field of information systems and technologies

**Professional and practical:** thorough preparation in programming, algorithmic thinking, methods of software engineering for software implementation based on quality requirements, reliability, production characteristics, knowledge of standards, methods and tools for management of processes of the life cycle of information systems, product and service of information technologies; software development in accordance with the requirements of the customer, implementation of system simulation, system analysis of the object of information, decision making, development of artificial intelligence systems and methods, basic knowledge of computer engineering, basic principles of organization and functioning of modern information processing systems hardware, main characteristics, features and applications of computer systems.

**Academic Rights of graduates**

Graduates have the right to apply for masters programs in the specialty, related to the curriculum of bachelor programs, starting from the second year of study:

- 8.03060101 - "Information Managing Systems and Technologies",
- or "Specific categories":
- 8.18010010 - "Quality, Standardization and Certification"
- 8.18010018 - "Administration Management"
- 8.18010020 - "Management of an Educational Institution"
- 8.18010021 - "Pedagogy of Higher School"

**Employment**

The graduates can be employed as: software engineers, administrators of local and corporate networks, specialists in design and development of information and automation systems, artificial intelligence and expert systems, experts in Web-design, etc.

**Proposed themes of theses:**

1. Creation of subsystem of authorization for electronic commerce.
2. Development and implementation of information exchange protocols between the industrial PC and interface modules of control system modes in the poultry-house.
3. Development of a conceptual database model of automated control system for energy consumption.
4. Development of a conceptual model of the database information system of agricultural enterprises with visualization of management object placement
5. Development of intellectual system of reagent dose determination in the flotation of drinking water.
6. Database and software development for the climate control system in the potato storage.
7. Development of a conceptual model and software of information system of soil properties.
8. Development of software of data archiving control of multichannel monitoring systems.



SPECIALTY CODE

**6.010106**

AMOUNT OF ECTS CREDITS

**240**

FORM OF STUDY/TRAINING PERIOD, YEARS

**FULL-TIME****4****EXTRA-MURAL****5**

Bachelor training is conducted in the basic institution of NULES of Ukraine (Kyiv)  
(licensed number: full-time / extra-mural) (50/50)

EDUCATION AND RESEARCH INSTITUTE

**NATURAL SCIENCES AND THE HUMANITIES**

FACULTY

**PEDAGOGY**

SPECIALITY

**SOCIAL PEDAGOGY**

FIELD OF KNOWLEDGE

**PEDAGOGICAL EDUCATION****Annotation of speciality**

An expert in "Social Pedagogy" carries out social and educational assistance, support, protection and rehabilitation of all categories of children and young people, provides production functions in solving social and educational problems in the socialization of children and young people, organizes their social protection, advises on socio-pedagogical issues, organizes their activities in spare time, helps people who are involved in the educational process.

**Structure of the curriculum**

The curriculum is composed on the basis of educational and professional programs EQL "Bachelor" in the field of "Social Pedagogy".

The regulatory component of the curriculum consists of 3 cycles of 6 570 hours totally, 182.5 ECTS credits:

- Humanitarian and social-economic,
- Natural sciences,
- Professional and practical.

The optional component of the curriculum consists of 1 152 hours elective courses chosen by the University and 846 hours chosen by students, 1998 hours totally, 55.5 ECTS credits.

The total number of hours for the educational and professional program is 8 640, 240 ECTS credits.

The curriculum includes:

- 6 course papers in: "Pedagogy", "Social Pedagogy", "Social Psychology", "Theory and History of Social Education", "Technology of Social and Pedagogical Activities", "Ethnopsychology";
- 4 training practices: academic (introductory to profession, social and pedagogical, social and pedagogical in rural areas), on-the-job training (social and pedagogical).

State certification involves passing the state examination in social pedagogy, technology of social and educational activities, social psychology.

**Practical Training Places**

District centers of social services for families, children and youth departments to work with children deprived of parental care, training and recreation centers, local social services centers, pre-school educational institutions, secondary schools of I-III levels, centers for social and psychological rehabilitation.

QUALIFICATION OF GRADUATES

**BACHELOR – SOCIAL PEDAGOGUE**

SPECIALITY CODE

**6.010106****Competencies acquired**

**Theoretical** (the humanities, social and economic knowledge) personality of a student, contact group, individual social groups, parents, analysis and evaluation of the educational content, up-to-date educational methods and techniques, innovations in social and educational process; differentiation of responsibilities in a family, schools, educational institutions, legal acts on the protection of children and young people.

**Fundamental** (the natural sciences) priorities and planning of social and educational activities, optimization of functional responsibilities of participants in socializing process and ways of their coordination and control; professional activity, forecasting various activities, analyzing the results of the pedagogical process and predicting changes.

**Professional and practical:** communication with the individual and various social groups to exercise the legal protection of children and young people, major features of different types of social institutions, ways and content of the interaction of various institutions to solve social and educational problems, conflicts and the best ways to communicate; deviant behavior of adolescents and young people, effective forms of social and preventive work.

**Academic Rights of graduates**

Graduates have the Right to apply for master degree in the specialty, related to the curriculum of bachelor programs, starting from the second year of study:

8.01010601 - "Social Pedagogy",

or "Specific categories":

8.18010010 - "Quality, Standardization and Certification"

8.18010018 - "Administration Management"

8.18010020- "Management of an Educational Institution"

8.18010021 - "Pedagogy of Higher School"

**Employment**

A specialist in the field of "Social pedagogy" can work in the school system, children's centers for education and training, cultural centers and schools of art, social and educational services and clubs, children's organizations, Trusteeship Council, services for juveniles, in special children's closed type institutions, government centers and services of social work, centers of social welfare and assistance, employment centers.

Graduates may occupy the following positions: social teacher, organizer of extra-curricula educational work with children, educator of a vocational and technical institution hostel; cultural organizer of children's and after-school establishments, head of the center (youth, rehabilitation, correction, etc.); Head of the office (methodological, resource, etc.), instructor-methodologist; inspector of Child Welfare, sociologist on the effective punishment of offenders; social worker (for assistance to disadvantaged families, monetary assistance to children and others), head of voluntary associations, major operations assistant, assistant teacher, worker taking care of individuals, head of a hostel, head of the mother and child room, manager in social work, head of specialized social services (rehabilitation center for children with disabilities, crisis clinic for children deprived of parental care, mobile center for social work, the mobile information center; methodical resource center of social work; training center, the service department; tutorial service); pedagogue and consultant (social services and centers of different directions for children and youth; family planning and development center; social shelters, reception and distribution centers).



SPECIALTY CODE

**6.020303**

AMOUNT OF ECTS CREDITS

**240**

FORM OF STUDY/TRAINING PERIOD, YEARS

**FULL-TIME****4****EXTRA-MURAL****-**

Bachelor training is conducted in the basic institution of NULES of Ukraine (Kyiv) (licensed number of persons: full-time -50)

EDUCATION AND RESEARCH INSTITUTE

**NATURAL SCIENCES AND THE HUMANITIES**

FACULTY

**PEDAGOGY**

SPECIALITY

**PHILOLOGY (TRANSLATION)**

FIELD OF KNOWLEDGE

**THE HUMANITIES****Annotation of speciality**

An expert in the field of "Philology (translation)" implements translation activities to meet the needs of agroindustrial and environmental protection industry in Ukraine. A professional activity of such a specialist provides performance of production functions in areas of scientific, technical, socio-political and economic translation of literature and documentation, support of international projects, drawing up thematic review of foreign literature. Experts are prepared for teaching foreign language.

**Structure of the curriculum**

The curriculum is composed on the basis of educational and professional programs EQL "Bachelor" in the field of "Philology (translation)".

The regulatory component of the curriculum consists of 3 cycles 4 644 hours totally, 129 ECTS credits:

- Humanitarian and social-economic,
- Natural sciences,
- Professional and practical.

The optional component of the curriculum consists of 2 088 hours elective courses chosen by the University and 1832 hours chosen by students, 3 960 hours totally, 110 ECTS credits.

The total number of hours for the educational and professional program is 8640, 240 ECTS credits.

The curriculum includes:

- 3 course papers in: "Introduction to translation", "History of foreign literature", "Comparative lexicology of basic foreign and Ukrainian languages";
- 3 training practices: academic (translation), on-the-job training (teaching, translation).

State certification involves passing the state examination.

**Practical Training Places**

Ukrainian Research Institute of AIC productivity, commodity exchange "Kiev agroindustrial exchange", Department on domestic policy of administrative and territorial structure and information maintenance of the Executive Office of Khmelnytsky Regional Council, Ukrainian Institute of examination of plant varieties, Ltd. "Fund of Environmental (Green) Investments, "Cultural Center" Cambridge University Press ", enterprise with foreign capital PIC " Orsi ", LLC " Ideks-production ", Private Enterprise " Antario M ".

## QUALIFICATION OF GRADUATES

**BACHELOR IN PHILOLOGY,  
TEACHER OF ENGLISH (GERMAN) LANGUAGE**

## SPECIALITY CODE

**6.020303****Competencies acquired**

**Theoretical** (the humanities, social and economic knowledge) knowledge of history, culture and traditions of the countries languages of which are studied; specialists should apply principles of structuring statements, create safe environment for life and work using legal rules and regulations.

**Fundamental** (the natural sciences): knowledge of the system and the rule of language, its vocabulary and grammatical structure, optimal cooperation in public activities, team working with specialists from other sectors of the economy, cross-cultural differences, international environment; information technology for translating and text processing.

**Professional and practical:** translation of texts in two languages according to its thematic text genre with variants of translation strategies and techniques of translation; different speech environments, organization of teaching a foreign language.

**Academic Rights of graduates**

Graduates have the right to apply for master's degree in the specialty, related to the curriculum of bachelor programs:

8.02030304 - "Translation",

or "Specific categories":

8.18010010 - "Quality, Standardization and Certification"

8.18010018 - "Administration Management"

8.18010020 - "Management of an Educational Institution"

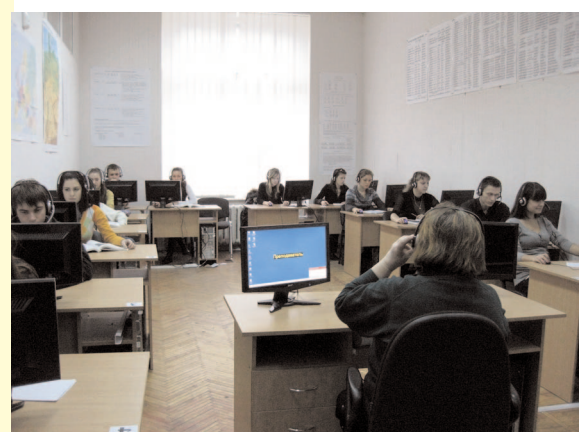
8.18010021 - "Pedagogy of Higher School"

**Employment**

Specialist in philology can translate of scientific and technical (agricultural) and business literature, consult on translation and work at translation bureau, organizations of industrialists and businessmen, professional and social organizations, publishing agencies, work as a teacher of foreign languages at secondary schools.

The qualification of a specialist involves performing work in areas of:

- Consulting services, translation services (translation and interpreting, proofreading, processing various genres of oral and written texts (annotation, abstracting) linguistic support licensing and purchasing of licensed products; linguistic support of certification at the international level);
- data processing (performance of machine translation, the creation of machine dictionaries unification and standardization of scientific and technical (agricultural) terminology, the creation of dictionaries, creating databases of linguistic direction; linguistic support of access to databases);
- working in Information agencies (cooperation in providing media news and other materials in foreign languages, support for information and cultural services activity of which is international in nature);
- automation of text processing (content analysis in mass communication, the development of knowledge bases for expert systems, computer design of texts);
- software development (formation of Linguistic Support of software);
- teaching foreign languages (selection of language material in order to organize the teaching of foreign languages and language testing, preparation of educational learning materials, training).



SPECIALTY CODE

**6.030510**

AMOUNT OF ECTS CREDITS

**240**

FORM OF STUDY/TRAINING PERIOD, YEARS

**FULL-TIME****4****EXTRA-MURAL****3**

Bachelor training is conducted in "Irpin Economic College" SS of NULES of Ukraine (licensed number: full-time -50/ extra-mural - 50)

EDUCATION AND RESEARCH INSTITUTE

**"IRPIN ECONOMIC COLLEGE" SS OF NULES of Ukraine**

FACULTY

SPECIALITY

**MERCHANDISING AND COMMERCIAL BUSINESS**

FIELD OF KNOWLEDGE

**ECONOMY AND ENTREPRENEURSHIP****Annotation of speciality**

A specialist in the field of study "Merchandizing and commercial business" carries out activities in merchandizing and commercial challenges concerning the range and quality of goods through administrative and operating, partly heuristics work; operational decisions within their authority to preserve the quality of goods in the goods delivery; operational management of primary units - linear (main activity) or functional (preparatory and auxiliary activities) as well as independent organizations, that do not have the administrative staff, provision of trade enterprises with goods; management of range of products, ensuring efficiency of trade processes technology; examination of goods and containers, monitoring of the implementation of treaties, agreements and contracts; improvement of trade and commercial activities; management of material and financial facilities of the company; strategic and operational planning of business, developing marketing strategies, developing foreign economic strategy on a commodity market; study the effectiveness of the organization and management of trade and production process.

**Structure of the curriculum**

The curriculum is composed on the basis of educational and professional programs EQL "Bachelor" in the field of "Commodity and Commercial Business".

The regulatory component of the curriculum consists of 3 cycles:

- Humanitarian and social-economic,
- Natural sciences and fundamental,
- Professional and practical

6 120 hours totally, 170 ECTS credits

Then optional component of the curriculum consists of 2 322 hours elective courses chosen by the educational institution, 64.5 ECTS credits.

The total number of hours for the educational and professional program is 8 640, 240 ECTS credits.

The curriculum includes:

- 2 course papers in: "The Organization of Trade" and "Merchandizing (food)";
- 4 practical training: academic (Production Situation, Information Systems and Technology in Trade), on-the-job training (Merchandising, Technology and Production).

State certification involves passing the state examination.

**Practical Training Places**

SE "Prodmerzha" Furshet", LLC "ECO", supermarket "Ekomarket", LLC "Rost-market"; Store "Fora "; LLC "Vista "; LLC "Complex Agro-Mars ", LLC "Amida", LLC "Trading Company" Sloviyanochka".



## QUALIFICATION OF GRADUATES

**BACHELOR IN MERCHANDISING AND COMMERCIAL BUSINESS, COMMODITIES EXPERT**

SPECIALITY CODE

**6.030510****Competencies acquired**

**Theoretical:** firm outlook, awareness of contemporary issues of social development, political awareness and creativity in solving problems of modern society, critical thinking and forecasting political, economic, environmental, cultural and other events and phenomena, ability to navigate in international economic and political life, geopolitical situation, to understand the place and status of Ukraine in the world .

**Fundamental:** knowledge and skills in fundamental subjects for use in professional activities of commodity expert, mastering methods of chemical and physical analysis of the quality of goods, mathematical analysis of goods delivery, theoretical and practical training for the use of physical principles, methods and instruments in the profession, current level of information and computer culture, the use of modern information technologies to solve various problems in speciality.

**Professional and practical:** system of information about products, assortment structure for particular commercial enterprise, using sensory and instrumental methods of assessing the quality of products, comprehensive assessment of the quality of goods in various stages of goods delivery and storage, database of consumer properties of products of different manufacturers, ability to study, predict and create demand for products, market research in search for high quality, competitive products of relevant range, their distribution based on demand.

**Academic Rights of graduates**

Graduates have the right to apply for training programs in NULES of Ukraine in the EQL "Master" in "Specific Categories":

- 8.18010010 - "Quality, Standardization and Certification"
- 8.18010018 - "Administration Management"
- 8.18010020- "Management of an Educational Institution"
- 8.18010021- "Pedagogy of Higher School"

They can continue their education in NULES of Ukraine in the EQL "Master" in the following fields of study:

- 8.03051001 - "Merchandising and Commercial Business"
- 8.03051002 - "Merchandising and Customs Expertise"
- 8.03051003 - "Examination of Goods and Services"
- 8.03051004- "Safety and Quality of Goods Management"
- 8.03051005 - "Organization of Wholesaling and Retailing trade"

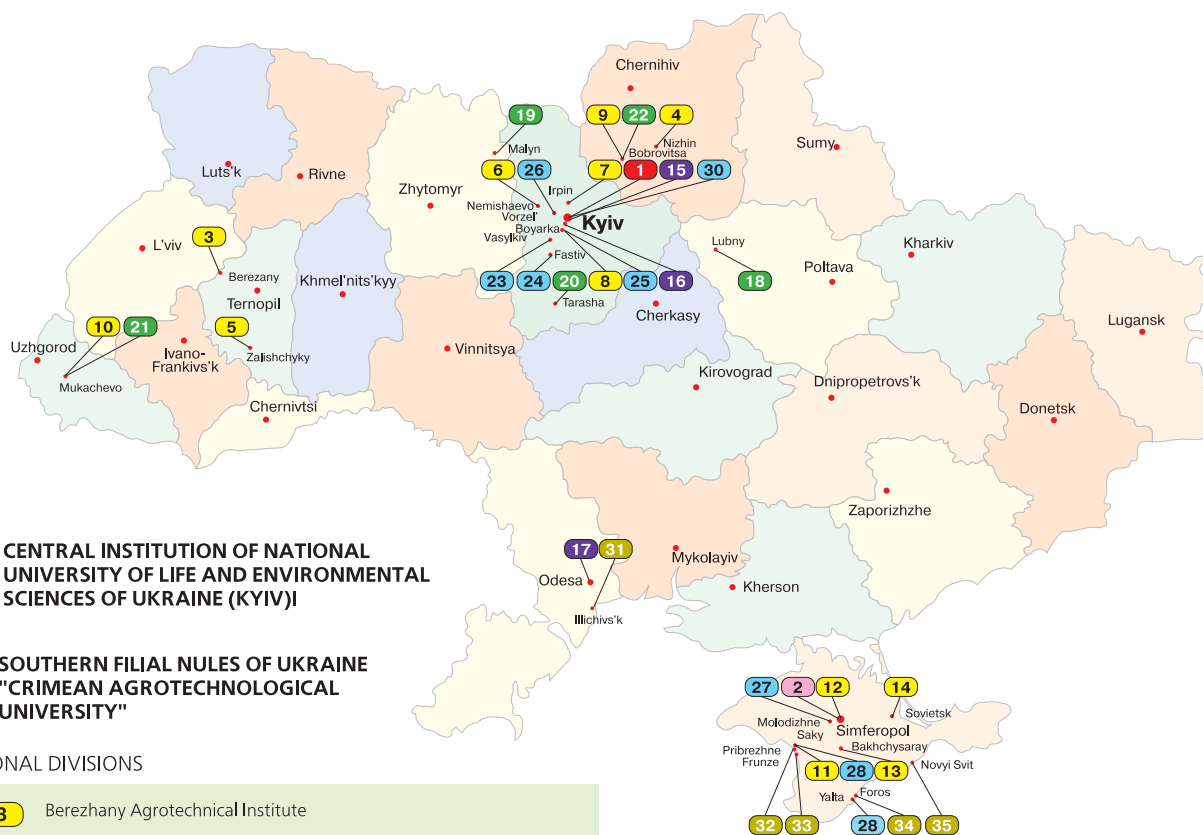
**Employment**

Graduates can apply their knowledge and skills in many areas of professional activity - merchandising, commercial, trade, entrepreneurial, marketing. Graduates can be employed as: trade agent, trade representative, trade inspector, merchandising inspector, commodity expert, commodity logistics expert, expert analyst of commodity market research, expert on methods of market expansion, merchandiser and others.

Graduate with work experience can occupy the following senior positions at companies, institutions and organizations: head of retail enterprise, market manager, head of section, head of warehouse, storehouse, head of the department, Commercial Director (at commercial enterprises), head of commercial agency, commercial director of trade representation, director of small trading firms, head of sales (marketing) department in trade enterprises, head of the range and quality of goods department in trade enterprises, head of the department for the study of market conditions and demand, etc.



# LOCATION OF DIVISIONS OF NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE



**1** CENTRAL INSTITUTION OF NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE (KYIV)

**2** SOUTHERN FILIAL NULES OF UKRAINE "CRIMEAN AGROTECHNOLOGICAL UNIVERSITY"

## REGIONAL DIVISIONS

- 3** Berezhanıy Agrotechnical Institute
- 4** Nizhyn Agrotechnical Institute
- 5** Zalizhchyky Agricultural College named after O.Mainova
- 6** Nemishayevo Agrotechnical College
- 7** Irpin Economic College
- 8** Boyarka College of Ecology and Natural Resources
- 9** Bobrovytsia College of Economics and Management named after E. Khraplyvıy
- 10** Mukacheve Agricultural College
- 11** Prybrehzne Agricultural College
- 12** Crimean Agricultural and Industrial College
- 13** Bakhchisaray College of Construction, Architecture and Design
- 14** Crimean Technical School of Hydromelioration and Mechanization of Agriculture

## SCIENTIFIC AND RESEARCH DIVISIONS OF UKRAINIAN EDUCATIONAL AND RESEARCH INSTITUTE OF BIOSOURCES QUALITY AND SAFETY OF LIFE

- 15** Ukrainian laboratory of quality and safety of Agricultural Products
- 16** Ukrainian SRI of agricultural radiology
- 17** Research and Project institute of standardization and technologies of ecosafe and organic products (Odessa)

## Separated subdivisions (SS) of NULES of Ukraine "TRAINING, INFORMATION AND CONSULTING CENTER"

- 18** SS NULES of Ukraine "Lubny TICC"
- 19** SS NULES of Ukraine "MalynTICC"
- 20** SS NULES of Ukraine "Tarashcha TICC"
- 21** SS NULES of Ukraine "Mukacheve TICC"
- 22** SS NULES of Ukraine "Bobrovytsia TICC"

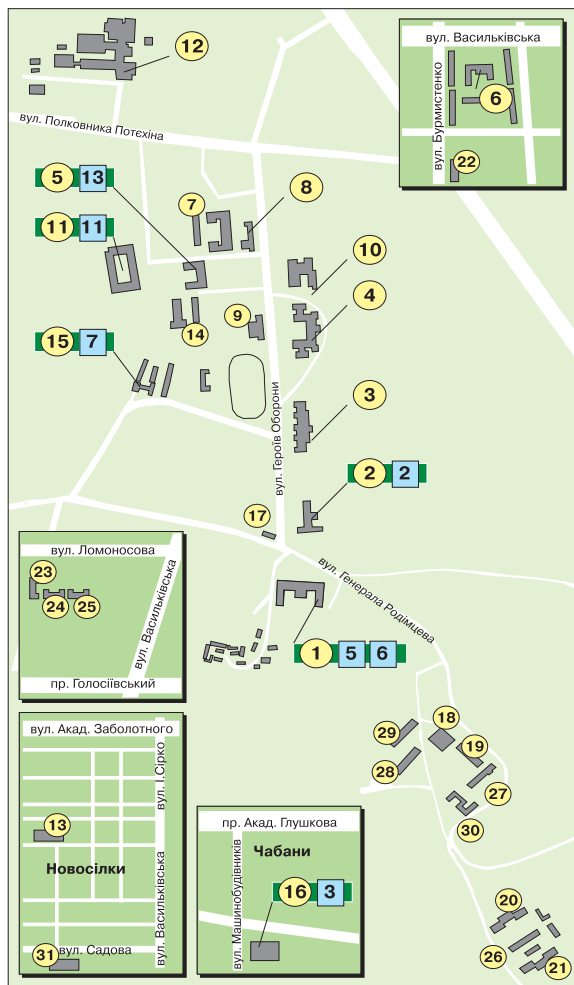
## Separated divisions of NUBIP of Ukraine RESEARCH STATIONS AND EDUCATIONAL AND RESEARCH FARMSTEAD

- 23** "Agronomic Research Station" Subdivision of NULES of Ukraine
- 24** Velykosnitynka Training and Research Farm named after Muzychenko Subdivision of NULES of Ukraine
- 25** "Boyarka Forest Research Station" Subdivision of NULES of Ukraine
- 26** "Vorzel" Training and Research Farm Subdivision of NULES of Ukraine
- 27** Subdivision of NULES of Ukraine (Crimea)
- 28** "Training and Research Poultry Breeding Plant named after Frunze"
- 29** Training and Research Center of Ecology, Biology of Subtropical Plants and Landscape Science of NULES of Ukraine (Crimea)
- 30** "BOTANICAL GARDEN" (in the structure of ERI of Forestry and Landscape Architecture)

## SPORT AND RECREATION CENTERS

- 31** Sport and recreation camp "ACADEMICHNYI"
- 32** Recreation center "VOLNA"
- 33** Recreation center of Prybrehzne Agricultural College
- 34** Sport and recreation center "FOROS"
- 35** Recreation center in Novyi Svit village

# LAYOUT LOCATION OF THE BASIC INSTITUTION OF NULES OF UKRAINE



## Educational buildings and other objects of the basic institution of NULES of Ukraine and their address:

- |    |                             |  |
|----|-----------------------------|--|
| 1  | 1th educational building    | 03041, Kyiv, General Rodymtsev str, 19   |
| 2  | 2th educational building    | 03041, Kyiv, Heroiiv Oborony str., 17  |
| 3  | 3th administrative building | 03041, Kyiv, Heroiiv Oborony str., 15  |
| 4  | 4th educational building    | 03041, Kyiv, Heroiiv Oborony str.  |
| 5  | 5th educational building    | 03041, Kyiv, Heroiiv Oborony str. 16   |
| 6  | 6th educational building    | 03041, Kyiv, Vasylkivs'ka str, 17  |
| 7  | 7th educational building    | 03041, Kyiv, Heroiiv Oborony str.  |
| 8  | 8th educational building    | 03041, Kyiv, Heroiiv Oborony str.  |
| 9  | 9th educational building    | 03041, Kyiv, Heroiiv Oborony str. 11   |
| 10 | 10th educational building   | 03041, Kyiv, Heroiiv Oborony str. 12   |
| 11 | 11th educational building   | 03041, Kyiv, Heroiiv Oborony str., 12-a  |
| 12 | 12th educational building   | 03041, Kyiv, General Potekhin str., 16   |
| 13 | 14th educational building   | 03027, Kyiv region, Kyivo-Sviatoshynskiy distr., Novosilky, Yermolenko str., 5         |
| 14 | 15th educational building   | 03041, Kyiv, Heroiiv Oborony str., 18-a  |
| 15 | 17th educational building   | 03041 Kyiv, Silskogospodarsky lane, 4  |
| 16 | 16th educational building   | 08162, Kyiv region, Kyivo-Sviatoshynskiy distr., Chabany vil, Mashynobudivnykiv str, 7 |
| 17 | Botanical garden            | 03041, Kyiv, General Rodymtsev str., 2   |
| 18 | Dining-room                 | 03041, Kyiv, General Rodymtsev str., 7   |
| 19 | Hostel № 1                  | 03041, Kyiv, Blakytynogo str., 10  |
| 20 | Hostel №2                   | 03041, Kyiv, Blakytynogo str., 8   |
| 21 | (Hostel №3)                 | 03022, Kyiv, Lomonosov str., 67  |
| 22 | Hostel №4                   | 03041, Kyiv, Burmistenko str., 4   |
| 23 | Hostel №5                   | 03022, Kyiv, Lomonosov str., 63  |
| 24 | Hostel №6                   | 03022, Kyiv, Lomonosov str., 65  |
| 25 | Hostel №7                   | 03041, Kyiv, Blakytynogo street, 4   |
| 26 | Hostel № 8                  | 03041, Kyiv, General Rodymtsev str., 1   |
| 27 | Hostel №9                   | 03041, Kyiv, General Rodymtsev str., 7-A   |
| 28 | Hostel №10                  | 03041, Kyiv, General Rodymtsev str., 7-B   |
| 29 | Hostel №11                  | 03041, Kyiv, General Rodymtsev str., 7-B   |
| 30 | Hostel №12, Hotel           | 03041, Kyiv, General Rodymtsev str., 1-B   |
| 31 | Hostel №13 & 13-A           | Kyiv region, Kyivo-Sviatoshynskiy distr., Novosilky, Sadova str., 21                   |

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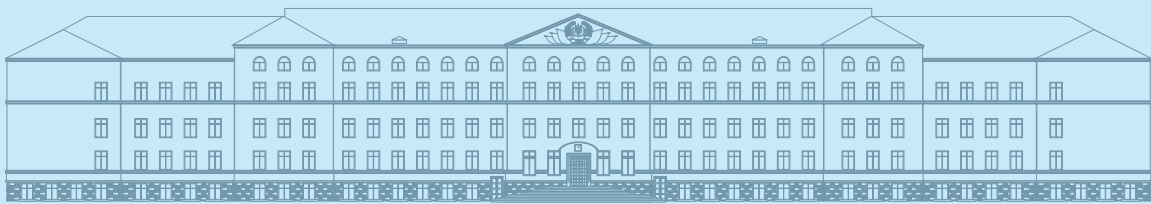
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