

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

**THE CURRICULA
FOR THE TRAINING OF MASTERS**

Year of entry – 2017

2017

The publication presents a framework for masters of NULES of Ukraine, the schedule of the educational process and curricula for training specialists educational degree «Master» 2017 year of entry for all professions and educational programs in accordance with the Law of Ukraine «On Higher Education».

Educational editions

CURRICULA

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on the 23.10.2017 (Minutes № 3),
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INTRODUCTION

The National University of Life and Environmental Sciences of Ukraine has been providing master training programs since 1996.

The curricula and programs of Master's Degree training are compiled in accordance with requirements of Law of Ukraine "About higher education". Their adaptation and conformity meet the requirements of U.S. and European systems of higher agricultural education.

The National University of Life and Environmental Sciences of Ukraine provides training for educational level "Master" in 34 specialties covering 52 educational programs (table 1)

Table 1. Specialties and educational programs in Master training at NULES

Structural subdivision (ERI, faculty)	Specialty	Educational programs
ERI of Energetics, Automatics and Energy Saving	Automation and Computer Integrated Technologies	Automated control of technological processes
	Power Engineering, Electrical Engineering and Electrical Mechanics	Electrification and automation of agriculture
		Electrotechnical systems of power consumption
		Energetics of agricultural production
ERI of Forestry and Garden- Park Management	Forestry	Forestry
	Woodworking and Furniture Technologies	Woodworking and Furniture Technologies
	Park and Gardening Management	Park and Gardening Management
ERI of After Diploma Education	Management	Extension service *
		Management of innovative activity *
	Public Management and Administration	Public Administration **
Agrobiology	Agronomy	Agronomy
		Agrochemistry and Soil Science
		Selection and genetics of agricultural crops
Humanitarian Pedagogical	Horticulture and Viticulture	Horticulture and Viticulture
	Management	Management of educational institution *
	Education and Educational Science	Pedagogy of higher school *
	Social Work	Social Work *
	Philology (german languages and literature) (including translation)	English and other foreign language
		German and other foreign language
Economic	Economy	Economics of enterprise
		Applied Economics *
	Accounting and Taxation	Accounting and audit
	Entrepreneurship, Trade and Exchange Activities	Stock exchange activities *
	Finance, Banking and Insurance	Finance and credit
Mechanics - Technology	Agricultural Engineering	Agricultural Engineering
	Motor Transport	Motor Transport
	Transport Technologies (road transport)	Transport Technologies in road transport
Agrarian Management	Management	Administrative management *
		Management of foreign economic activity *
		Management of organization and administration *
		Management of investment activity and international projects *
	Marketing	Marketing
Veterinary Medicine	Veterinary Medicine	Veterinary Medicine
	Veterinary hygiene, sanitary and expertise	Veterinary hygiene, sanitary and expertise
Plant Protection, Biotechnology and Ecology	Biotechnology and Bioengineering	Environmental biotechnology and bioenergetics
	Ecology	Ecological control and audit

Structural subdivision (ERI, faculty)	Specialty	Educational programs
	Plant Protection and Plant Quarantine	Ecology and environmental protection
		Plant Protection
		Quarantine of Plants
Land Management	Geodesy and Land Management	Geodesy and Land Management
Information Technology	Economy	Economic cybernetics
	Computer Science	Information managing systems and technologies
		Computer ecological and economic monitoring
Construction and Design	Construction and Civil Engineering	Construction and Civil Engineering
	Industrial Mechanical Engineering	Machinery and equipment of agricultural production
		Equipment of forest complex
Livestock Science and Water Bioresources	Water Bioresources and Aquaculture	Water Bioresources and Aquaculture
	Technology of Production and Processing of Livestock Products	Technology of Production and Processing of Livestock Products
Alimentary Technologies and Managing of Quality of Productes of ASE	Metrology and Information and Measurement Technique	Quality, Standardization and Certification *
	Food Technologies	Technologies of storage, preserving and reprocessing of meat
		Technologies of storage and reprocessing of aquatic bioresources
Law	Law	Law

Note: * persons who have basic higher education in any specialty are admitted;

** persons who have full higher education in any specialty are admitted.

The peculiarities of Master training at NULES of Ukraine are characterized by close relationship of the program contents with the sphere of future employment of graduates.

Master training at NULES of Ukraine is carried out according to:

- programs:
 - educational and professional;
 - educational and research;
- educational programs with cross entry opportunities (with additional entrance examination):
 - "Administrative Management";
 - "Extension Service";
 - "Management of Innovative Activity";
 - "Management of Foreign Economic Activity";
 - "Management of Organization and Administration";
 - "Management of Investment Activity and International Projects";
 - "Management of Educational Institution";
 - "Stock exchange activities";
 - "Applied economics";
 - "Pedagogy of Higher School";
 - "Social Work";
 - "Quality, Standardization and Certification";
- specialties "Public Management and Administration" in educational program "Public Administration".

Individuals who have studied and intend to continue training in the chosen specialty for deeper educational program are enrolled on educational and professional program (1,5 years of study (90 ECTS)). These programs are implemented to ensure the science-intensive production sector with highly qualified specialists who possess the innovative knowledge and are able to apply it into modern high technologies.

The training of Masters on the educational and research program (2 years of study (120 ECTS)) is provided only by the departments of the University, which are entitled to train postgraduate students, have sufficient funding and considerable progress in research activities. Applicants are required to have a good command of at least one foreign language. The educational and research program includes an obligatory research (scientific) component, no less than 30 per cent).

Master training on this program includes conducting further research activity according to the chosen specialty to obtain PhD during postgraduate study or at a research institution.

Especially popular at the university are educational programs with cross entry opportunities (with additional entrance examination): "Administrative Management", "Extension Service", "Management of Innovative Activity", "Management of Foreign Economic Activity", "Management of Organization and Administration", "Management of Investment Activity and International Projects", "Management of Educational Institution", "Stock exchange activities", "Applied economics", "Pedagogy of Higher School", "Social Work", "Quality, Standardization and Certification".

Educational program "Administrative Management" is focused on training highly-professional managers able to manage agrarian business applying appropriate knowledge and skills, modern computer technologies, innovative knowledge and foreign languages. The feature of this program is that learning content is determined by basic education (economic or non-economic) and future employment area. For those with economic basic education, the curriculum includes technological disciplines in the cycle of elective disciplines, for others – economic disciplines.

Educational program "Extension service" has been developed to meet the needs of establishing an effective advisory system and information and consultancy service for agricultural producers and the population. Knowledge and practical experience obtained through training will help graduates create their consulting services (firms) to extend knowledge, information, innovation, using new information technologies with interactive, consulting systems for competitive agricultural production.

Educational program "Management of Innovative Activity" focuses on training highly qualified managers with special knowledge in basic education, able to make strategic and tactical managerial innovative solutions, identify the most promising scientific developments and implement them in production on the administrative level of the central state and regional regulatory agencies, counseling centers, innovative financial and credit institutions, agricultural enterprises in accordance with the requirements of international standards.

Educational program "Management of Foreign Economic Activity" aims to provide students with in-depth knowledge necessary to make effective decisions in the management of foreign economic activity of agro-food enterprises in the context of globalization and European integration of the national economy of Ukraine. Professional teaching of academic disciplines (some courses are taught in a foreign language) as part of the educational program will enable graduates to gain a competitive advantage in employment in the leading international agribusinesses, agricultural enterprises and organizations.

Educational program "Management of Organization and Administration" focuses on training managers of enterprises with different forms of ownership and labour organizations and managers of subdivision in agribusiness with managerial skills both in production and social sphere. The program aims to provide students with efficient knowledge about development of ideas in management, to reveal the essence of modern management provisions, to form the students' ability to effectively apply theoretical knowledge in practice.

Educational program "Management of Investment Activity and International Projects". Training of specialists in developing investment policies and project management of companies, finding international programs, grants and sources of investment meets the need in agro production project-managers, coordinators and project leaders, investment managers and analysts, heads of investment departments and investment advisors. Students are offered opportunities for project drafting and obtaining double degrees at leading educational institutions in Poland.

Educational program "Management of educational institution". Training of managers of enterprises, institutions and organizations (in the sphere of education and industrial training) is caused by the demand in specialists able to carry out work on planning and optimization of the organizational structure of an institution; management of its educational and economic activities; monitoring the implementation of the plan; development of the staff policy of the institution and student contingent.

Educational program "Stock exchange activities" focuses on training specialists able to effectively apply the tools of stock market in order to minimize both production and financial risks in almost all spheres of economic activity, to develop and implement the forecasts for domestic and world markets on the whole and within the specific groups of commodities or financial instruments. In addition to their specific specialization, graduates will be able to trade in the commodity and stock markets.

Educational program "Applied Economics" provides students with the knowledge in order to successfully solve complex problems in the sphere of increasing competitiveness of agribusiness; application of advanced methods of economic-mathematical modeling to study the dynamics of development in the agrarian sector. The students have an opportunity to master up-to-date software - modeling program package «Wolfram Mathematica».

Educational program "Pedagogy of higher school". Training of a university teacher is caused by the demand in specialists able to organize the educational process, methodological and research activities in colleges and vocational schools, promote social development of young people in higher education institutions.

Educational program "Social Work". Training of specialists in social work meets the need of our country in the implementation of social and educational assistance, support, protection and rehabilitation of all categories of the population, organization of the social services centers for social protection and assistance, employment and recruitment centers, systems of educational institutions, centers for children's education and upbringing, cultural centers and art schools, social and educational services and clubs, children's and community organizations, guardianship services, juvenile affairs services.

Educational program "Quality, standardization and certification" focuses on training specialists able to adapt Ukrainian system of assessment of quality, safety, certification and standardization of AIC products according to international standards and their practical implementation.

At NULES of Ukraine the **educational program "Public Administration"** in the specialty "Public Management and Administration", is popular. It focuses on training specialists for public authorities and local governments, able to effectively develop and implement their knowledge in the field of state regulation on the basis of current legislation and information technology.

Content Structure of Master educational programs at NULES of Ukraine

Educational (educational-professional or educational-research) program is a system of educational components at the appropriate level of higher education within the specialty that defines the requirements for the educational level of individuals who can begin training on this program, the list of disciplines and logical sequence of studying them, the number of ECTS credits required for this program, as well as the expected learning outcomes (competences), which an applicant for an appropriate degree of higher education should obtain.

The content structure of Master programs at the NULES of Ukraine includes three discipline blocks.

The list, extent and attestation forms of standard disciplines within the framework of a definite specialty (block 1) are determined by the branch standards of higher education of Ukraine and the administrative action of the academic board of the university. The study of these disciplines provides the basis of specialty and master degree.

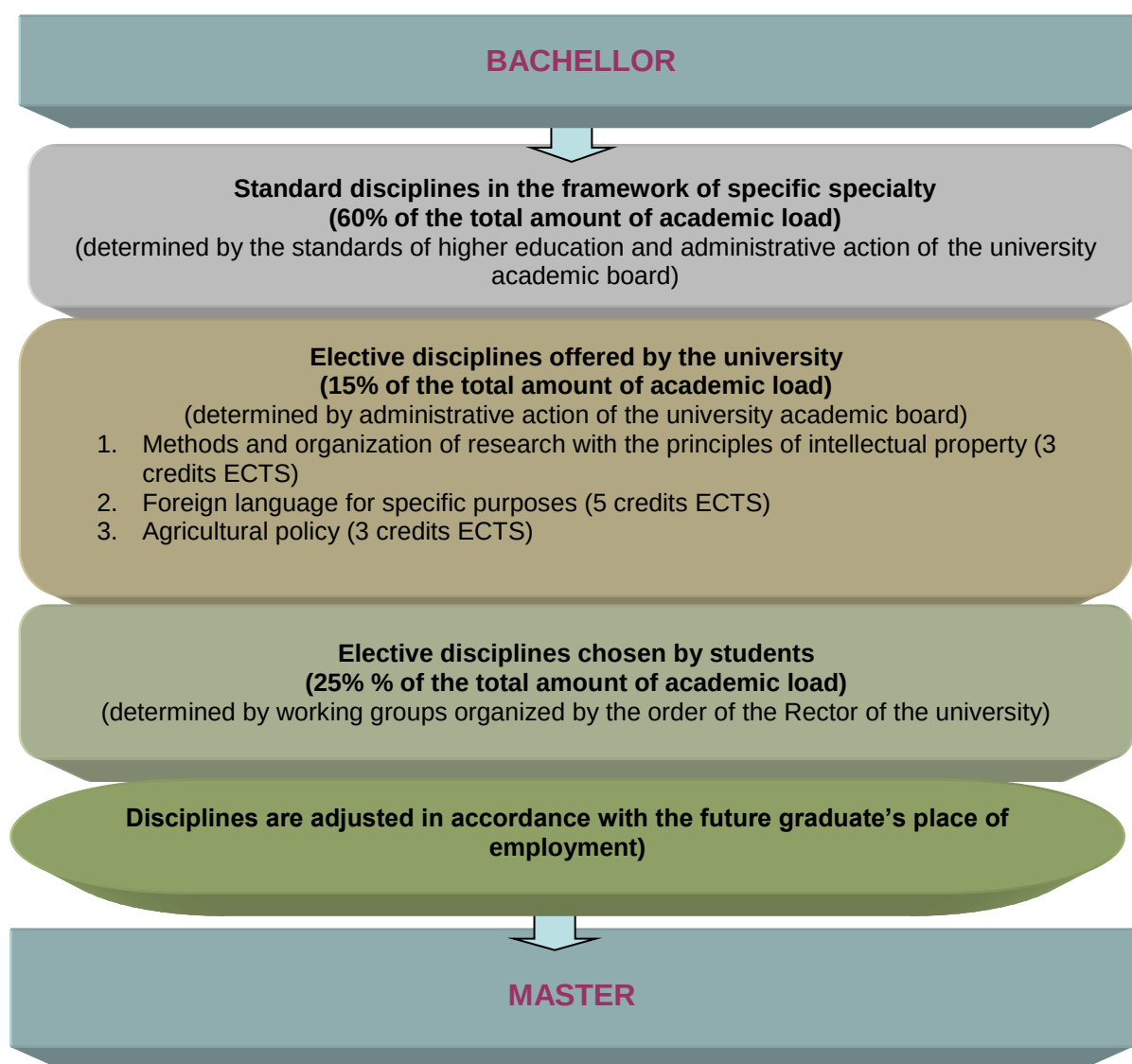


Fig. 1. Content Structure of Master educational programs at NULES of Ukraine

The elective part of disciplines determines the basis of educational programs within the relevant specialty. The list, extent and attestation forms of elective disciplines offered by the university (block 2) are determined by the academic board of the university. These disciplines are studied by students during their first year according to educational programs of training. They contribute to masters' future research activities and postgraduate studies, help to master a foreign language, methodology and organization of scientific research and be professionally aware in agricultural issues.

The list of standard disciplines and elective courses offered by the University are the same for all students who study according to the same curriculum, regardless of their chosen major.

The list, forms of study and attestation of elective courses chosen by students (block 3) are defined by working groups organized by the rector's order, are recommended by the academic boards of the faculties (ERI), approved by educational-methodological council and by the academic board of the University. They are included in the curriculum depending on the student's choice and studied mainly during the second year of study. These disciplines enable the students to write master's thesis and adjust graduates to their future place of employment.

Professional training of students, including the master's rdegree research begin in the first semester. A significant part of the training is allotted for independent study.

The main forms of implementation of educational process at NULES of Ukraine

The educational process at NULES of Ukraine is realized through various forms including in-class activities, practical training, independent study and control (Fig. 2).

The in-class activities are conducted in the form of lectures, practical classes, seminars, laboratory activities and individual lessons, including the use of distance learning methods.

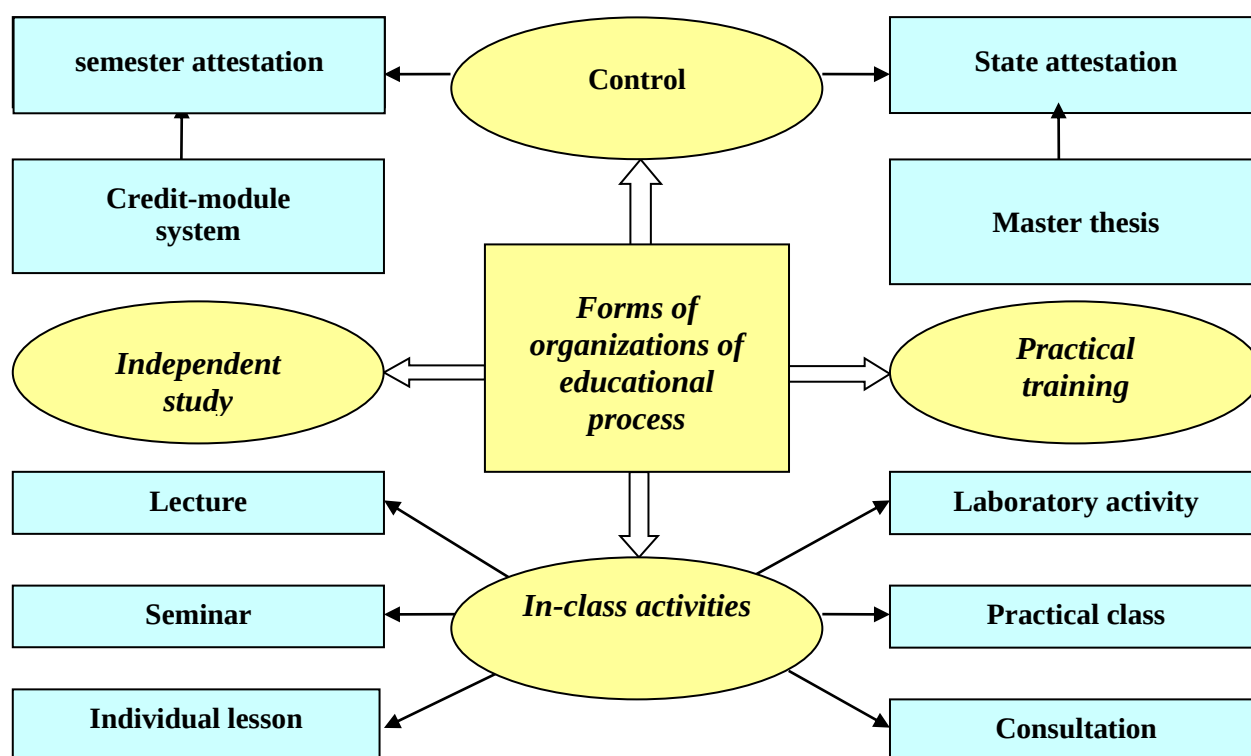


Fig. 2. The main form of implementation of educational process at NULES of Ukraine

Independent study is the main way to master knowledge and skills apart from regular classes. At NULES of Ukraine it is provided by the system of teaching tools, including textbooks, teaching and methodological aids, course books, abstracts of lectures, practical classes, e-courses of disciplines on educational information portal on Moodle distance learning platform. This work is conducted according to schedules. It guarantees the student's individual access to the necessary didactic materials. At the beginning of the current semester the students are informed about the schedule.

The teaching staff of appropriate departments is always available for consultation when students use complex equipment and information access systems while studying independently.

Special attention is paid to students' practical training system aimed at generalization of the theoretical and practical knowledge and acquisition of professional skills. It is conducted in the form of laboratory and practical classes, training and production practices that can be conducted at university's centers of practical training:

- 2 research stations – "Agronomic Research Station" SD of the NULES of Ukraine and "Boyarka Forestry Research Station" SD of the NULES of Ukraine (Kyiv region);
- 5 training and research farms (TRF) – Velykosnitynka Training and Research Farm named after Muzychenko, SS of the NULES of Ukraine "Vorzel", SS of NULESU "Nemishaievo Agro-

Technical College"*(Kyiv region), SS of NULESU "Zalischyky Agricultural College named after Khraplyvyi", SS of NULESU "Nizhyn Agro-Technical Institute" (Chernihiv Region);

– Special facilities for practical training of regional higher educational institutions of NULES of Ukraine I-II accreditation levels;

– Botanical garden of NULES of Ukraine.

The university farms are located in different soil and climatic zones of Ukraine - woodlands, forest-steppe, steppe. The peculiarity of practical training bases of the university is that they have relevant departments and branches as well as over 30 educational, industrial, scientific and research laboratories where students have laboratory and practical classes, training and production practices etc.

Forms of control of students' progress are credits which are done in the form of tests and exams in written form according to the examination cards which include various questions and tests of different types. After conducting the written examination and according to the results of answers to the exam questions, the student is interviewed by two lecturers, who conducted the final attestation. They determine the student's final grade.

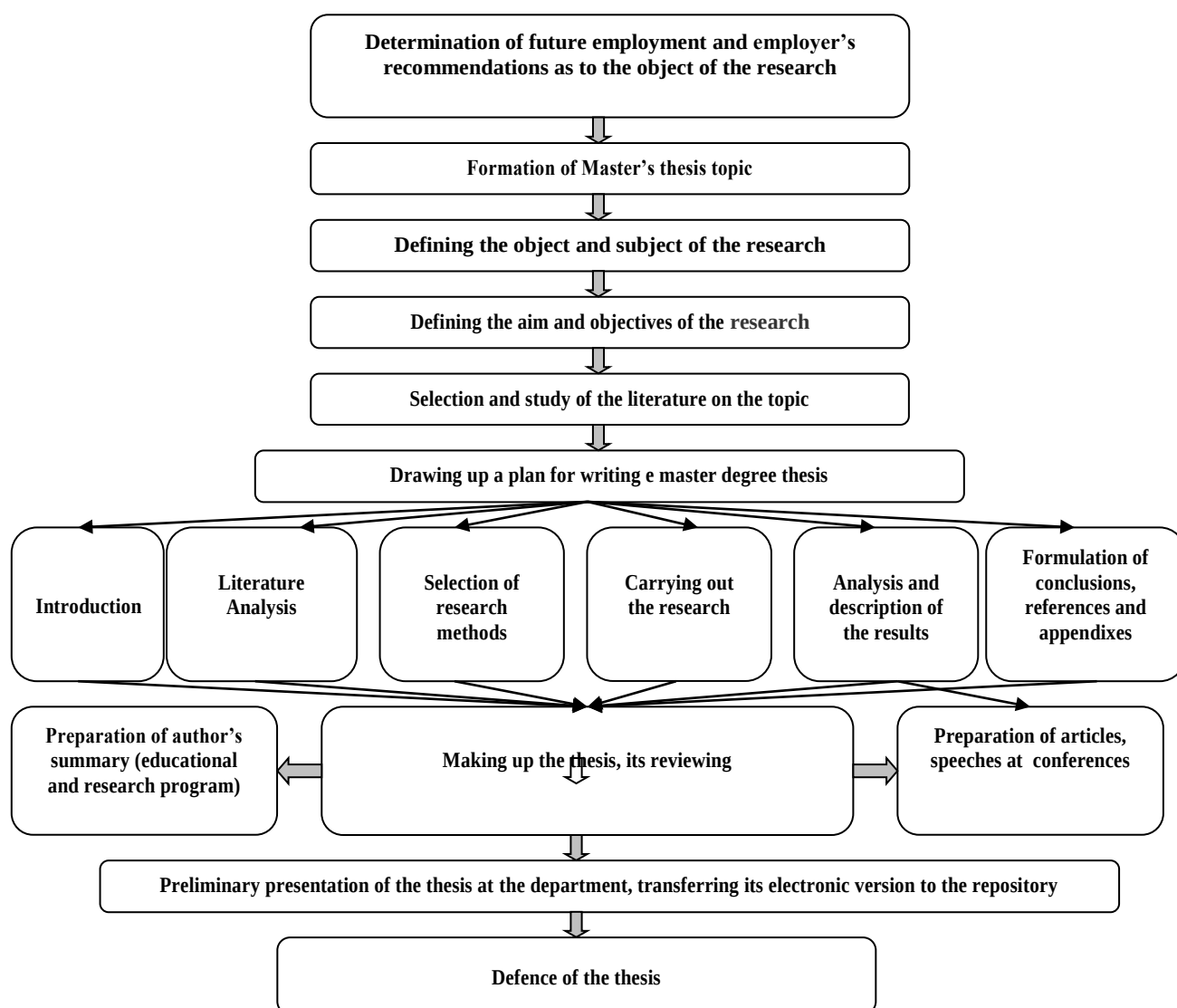


Fig. 3. Stages of writing Master thesis

Students take regular attestation during the course at department meetings, where they reports on the implementation of the individual plan on the whole and master's thesis in particular (Fig. 3).

Defence of Master's thesis is the final stage of student training and the form of graduates' state attestation. Attestation of applicants for higher education, that is, conformity of the level and amount of applicant's knowledge, skills and other competences to the requirements of higher education, is carried out by the board (EB) which makes the decision on the award of the relevant level higher education and qualification to a graduate.

Training of graduate students at the University is carried out by full-time and part-time (distance) forms. The main form of training masters at NULES of Ukraine – is full-time, for individuals who have already chosen the place of work – part-time form.

Part-time form, as a rule, has a longer duration compared to full-time (not more than by 25 %) and requires students to do a great deal of tasks independently, using appropriate teaching materials and means of distance education.

At NULES of Ukraine, educational and information portal moodle.nubip.edu.ua functions on the basis of the platform Moodle in order to provide information and methodological support of disciplines. It hosts e-learning courses in the respective disciplines and services of on-line communications (Skype, Google Apps, social networks). All this makes it possible to use distance learning technologies in the academic process, which raises the learning process to the international standards.

The process of part-time (distance) education is organized during a calendar year examination sessions. During these sessions as well as in the intersessional period, all forms of the educational activities are carried out: in-class activities, independent study, practical training and control.

SCHEDULE

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Stock exchange activities	II	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		
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Marketing	I	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		
																		:	-	-	-	-	-																																
Management of organization and administration	I	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		
																		:	-	-	-	-	-																																
Management of foreign economic activity	I	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		
																		:	-	-	-	-	-																																
Administrative management	I	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		
																		:	-	-	-	-	-																																
Management of investment activity and international projects (1.5 years)	I	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		
																		:	-	-	-	-	-																																
Management of investment activity and international projects (1.5 years)	I	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		
																		:	-	-	-	-	-																																
Economic cybernetics	I	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		
																		:	-	-	-	-	-																																
Information managing systems and technologies	I	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		
																		:	-	-	-	-	-																																
Computer ecological and economic monitoring	I	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		
																		:	-	-	-	-	-																																
Social Work	I	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		
																		:	-	-	-	-	-																																
Management of educational institution	I	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		
																		:	-	-	-	-	-																																
Pedagogy of higher school	I	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25																													

Equipment of forest complex	II	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Machinery and equipment of agricultural production	II om	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Construction and Civil Engineering	II om	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Automobile transport	II	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Agroengineering	II om	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Transport technologies (automobile transport)	II	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Automated control of technological processes	II om	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Electrotechnical systems of power consumption	II om	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Energetics of agricultural production	II om	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Electrification and automation of agriculture	II om	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Woodworking and Furniture Technologies	II	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Forestry	II	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Park and Gardening Management	II	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Law	II	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Geodesy and Land Management	II	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Economics of enterprise	II	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Applied Economics	II	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Finance and credit	II	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Accounting and audit	II	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Stock exchange activities	II	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Marketing	II	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Management of organization and administration	II	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Management of foreign economic activity	II	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52

Administrative management	II	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Management of investment activity and international projects	II om	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Economic cybernetics	II	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Information managing systems and technologies	II	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Computer ecological and economic monitoring	II	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Social Work	II	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
English and other foreign language, German and other foreign language	II	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Management of educational institution	II	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Pedagogy of higher school	II	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Management of innovative activity	II	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52

Legend:

	-	theoretical training	3	-	protection of research reports
:	-	examination session	X	-	scientific-practical training
II	-	preparation of master's work	A	-	intermediate attestation
//	-	state certification (defence of master's theses)	-	-	vacations
Д	-	research practice (research (scientific) component)	I	-	pedagogical (assistance) training

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE**

AGROBIOLOGY FACULTY

**CURRICULUM
of training specialists in 2017 academic year**

Level of higher education	the second (Master)
Branch of knowledge	20 «Agricultural science and food»
Specialty	201 «Agronomy»
Educational program	«Agronomy»
Orientation of educational program	educational and professional
Master's program	"The modern farming systems", "Adaptive crop", "Production and logistics plant products", "Energy-saving technologies in crop and forage production"
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis	of the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	Agronomist-researcher

specialty «Agronomy» of educational program «Agronomy»

2018 year

Legend:

	-	theoretical training
:	-	examination session
-	-	vacation

X	- scientific-practical training
II	- preparation of master's work
//	- state certification (protection

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work			Practical training		Distribution of hours per week within an acad. year and semesters		
		Hours	Credits	Semesters			Total	Including			12	13	14	15	16	17		
				Exam	Test	Course paper		Lectures	Laboratory classes	Seminars								
1. STANDARD ACADEMIC DISCIPLINES																		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
1	Applied ecology and biology of plants	90	3		t		30	15	15		60			2				
2	Soil management regimes for innovative technologies	120	4	e			30	15	15		90			2				
3	Agrochemical service in plant growing	90	3	e			30	15	15		60			2				
4	Adaptive systems of agriculture	120	4	e		CW	30	15	15		90			2				
5	Modern agricultural technologies create highly ekolohizovani grasslands and their rational use	90	3	e			30	15	15		60			2				
6	Post-harvest handling and storage of plant products	90	3		t		30	15	15		60			2				
7	Varietal certification	90	3		t		30	15	15		60			2				
8	Qualitative assessment of soil and land	90	3	e			30	15	15		60					2		
9	Innovative technologies in Plant Growing	120	4	e		CW	45	15	30		75					3		
10	Diagnostic of the crop nutrition	90	3	e			45	15	30		45					3		
11	Biological risk factors in agriculture and their control	90	3		t		30	15	15		60					2		
12	Processing of plant production	90	3	e			30	15	15		60					2		
13	Energy-saving technology of growing and harvesting high-protein high-grade feed	90	3		t		30	15	15		60					2		
14	Varietal resources and its formation	90	3	e			30	15	15		60					2		
Total		1350	45	9	5	2	450	210	240	0	900	0	0	14	16	0		
2. ELECTIVE ACADEMIC DISCIPLINES																		
2.1. Disciplines offered by University																		
1	Methodology and organization of scientific research on the basics of intellectual property	90	3		t		30	15	15		60				2			
2	Business foreign language	150	5	e			30		30		120				2			

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
3	Agricultural policy	90	3		t		30	15	15		60				2	
Total		330	11	1	2		90	30	60		240			4	2	0
2.2. Disciplines offered by students																
Master's program «The modern farming systems»																
1	The modern farming systems	120	4	e		CW	30	10	20		90					3
2	Integrated pest control in modern farming systems	120	4	e			30	10	20		90					3
3	Features of growing crops technologies in the current farming systems	120	4	e			40	20	20		80					4
4	Quality and logistics crop production in modern farming systems	120	4	e			40	20	20		80					4
5	Intensive cultivation technology of forage crops for seed	120	4	e			40	20	20		80					4
Total		600	20	5	0	1	180	80	100	0	420	0	0	0	0	18
Master's program «Adaptive crop»																
1	Adaptive technologies in Plant Growing	120	4	e		CW	30	10	20		90					3
2	Seed knowledge of field crops	120	4	e			30	10	20		90					3
3	Energetic plant resources	90	3		t		30	10	20		60					3
4	Certification and commodity of crop-growing products	90	3		t		30	10	20		60					3
5	Crop rotations and tillage in modern farming	90	3	e			30	10	20		60					3
6	Modern technologies of unconventional forage crops	90	3	e			30	10	20		60					3
Total		600	20	4	2	1	180	60	120	0	420	0	0	0	0	18
Master's program «Production and logistics plant products»																
1	The modern farming systems	120	4	e			30	10	20		90					3
2	Technology seeds and planting material of crops production	120	4	e			40	20	20		80					4
3	Technology and chemical control of crop production	120	4	e		CW	40	20	20		80					4
4	Material and technical base of crop production logistics	120	4		t		40	20	20		80					4
5	Innovative technologies in fodder production	120	4	e			30	10	20		90					3
Total		600	20	4	1	1	180	80	100	0	420	0	0	0	0	18
Master's program «Energy-saving technologies in crop and forage production»																
1	Crop rotation and tillage in modern farming	120	4	e			30	10	20		90					3
2	Prognosing and programming of yields field crops	120	4		t		40	20	20		80					4
3	Intensive cultivation technology of forage crops for seed	120	4	e		CW	40	20	20		80					4

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
4	Energy-saving technologies in the branch of storage and processing	120	4	e			30	10	20		90					3
5	Natural grasslands in increasing the production of complete feed	120	4	e			40	20	20		80					4
Total		600	20	4	1	1	180	80	100	0	420	0	0	0	0	18
Total for elective part		930	31	6	2	0	270	110	160	0	660	0	0	4	2	18
3. OTHER FORMS OF TRAINING																
Master's thesis preparation and defense		120	4													
Practical training		300	10													
Course work						3										
Tests					7											
Exams				15												
Total for educational program		2700	90	15	7	3	720	320	400	0	1560	0	0	18	18	18

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standart academic disciplines	1350	45	50
2. Elective academic disciplines	930	31	34,5
2.1. Disciplines offered by University	330	11	12,2
2.2. Disciplines offered by students	600	20	22,3
3. Other forms of training	420	14	15,5
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of baccalaureate work	State examination	Holidays	Total
1	30	4	10	–	–	8	52
2	10	2	–	3	1	–	16
Total	40	6	10	3	1	8	68

V. PRACTICAL TRAINING

№	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Industrial (research) practice	1, 2	300	10	10

VI. COURSE PAPER AND PROJECTS

№	Discipline	Hours	Credits	Course paper	Course projects
1	Adaptive systems of agriculture	15	0,5		
2	Innovative technologies in Plant Growing	15	0,5		
3	The modern farming systems	15	0,5		
3	Adaptive technologies in Plant Growing	15	0,5		
3	Technology and chemical control of crop production	15	0,5		
3	Intensive cultivation technology of forage crops for seed	15	0,5		

VII. STATE CERTIFICATION

N	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	120	4	4

CURRICULUM of training specialists in 2017 academic year

Level of higher education	the second (Master)
Branch of knowledge	20 «Agricultural science and food»
Specialty	201 «Agronomy»
Educational program	«Agrochemistry and Soil Science»
Orientation of educational program	educational and professional
Master's program	"Agrochemical service and quality management of soil"
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis	of the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	Researcher on agrochemistry and soil science

I. TRAINING PROCESS SCHEDULE
training specialists second (master's) level of higher education in 2017 entry
specialty «Agronomy» of educational program «Agrochemistry and Soil Science»

Year of study	2017year												2018year																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work			Practical training		Distribution of hours per week within an acad. year and semesters	
		Hours	Credits	Semesters			Total	Including									
				Exam	Test	Course paper		Lectures	Laboratory classes	Seminars							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
1. STANDARD ACADEMIC DISCIPLINES																	
1	Applied ecology and biology of plants	90	3		t		30	15	15			60			2		
2	Soil management regimes for innovative technologies	120	4	e			30	15	15			90			2		
3	Agrochemical service in plant growing	90	3	e			30	15	15			60			2		
4	Adaptive systems of agriculture	120	4	e		CW	30	15	15			90			2		
5	Modern agricultural technologies create highly ekolohizovani grasslands and their rational use	90	3	e			30	15	15			60			2		
6	Post-harvest handling and storage of plant products	90	3		t		30	15	15			60			2		
7	Varietal certification	90	3		t		30	15	15			60			2		
8	Qualitative assessment of soil and land	90	3	e			30	15	15			60				2	
9	Innovative technologies in Plant Growing	120	4	e		CW	45	15	30			75				3	
10	Diagnostic of the crop nutrition	90	3	e			45	15	30			45				3	
11	Biological risk factors in agriculture and their control	90	3		t		30	15	15			60				2	
12	Processing of plant production	90	3	e			30	15	15			60				2	
13	Energy-saving technology of growing and harvesting high-protein high-grade feed	90	3		t		30	15	15			60				2	
14	Varietal resources and its formation	90	3	e			30	15	15			60				2	
Total		1350	45	9	5	2	450	210	240	0	900	0	0	14	16	0	
2. ELECTIVE ACADEMIC DISCIPLINES																	
2.1. Disciplines offered by University																	
1	Methodology and organization of scientific research on the basics of intellectual property	90	3		t		30	15	15			60			2		

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
2	Business foreign language	150	5	e			30		30		120			2		
3	Agricultural policy	90	3		t		30	15	15		60				2	
Total		330	11	1	2		90	30	60		240			4	2	0
2.2. Disciplines offered by students																
Master's program «Agrochemical service and quality management of soil»																
1	The technologies of the soil chemical melioration	120	4	e		CW	30	10	20		90					3
2	The system of the modern special agrochemicals application	120	4		t		30	10	20		90					3
3	Land Reclamation	90	3	e			30	10	20		60					3
4	Soil appraisal	90	3	e			30	10	20		60					3
5	Monitoring soil quality	90	3		t		30	10	20		60					3
6	The regulation of the crop nutrition for greenhouse and for fertigation	90	3	e			30	10	20		60					3
Total		600	20	4	2	1	180	60	120	0	420	0	0	0	0	18
Total for elective part		930	31	5	4	3	270	90	180	0	660	0	0	4	2	18
3. OTHER FORMS OF TRAINING																
Master's thesis preparation and defense																
Practical training		120	4													
Course work		300	10													
Tests					9											
Exams				14												
Total for educational program		2700	90	14	9	3	720	320	400	0	1560	0	0	18	18	

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standart academic disciplines	1350	45	50
2. Elective academic disciplines	930	31	34,5
2.1. Disciplines offered by University	330	11	12,2
2.2. Disciplines offered by students	600	20	22,3
3. Other forms of training	420	14	15,5
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of baccalaureate work	State examination	Holidays	Total
1	30	4	10	–	–	8	52
2	10	2	–	3	1	–	16
Total	40	6	10	3	1	8	68

V. PRACTICAL TRAINING

Nº	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Industrial (research) practice	1, 2	300	10	10

VI. COURSE PAPER AND PROJECTS

Nº	Discipline	Hours	Credits	Course paper	Course projects
1	Adaptive systems of agriculture	15	0,5		
2	Innovative technologies in Plant Growing	15	0,5		
3	The technologies of the soil chemical melioration	15	0,5		

VII. STATE CERTIFICATION

N	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	120	4	4

CURRICULUM of training specialists in 2017 academic year

Level of higher education	the second (Master)
Branch of knowledge	20 «Agricultural science and food»
Specialty	201 «Agronomy»
Educational program	«Selection and Genetics of Agricultural Crops»
Orientation of educational program	educational and professional
Master's program	"State scientific and technical expertise of plant varieties and their legal protection"
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis	of the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	Researcher on breeding and genetics of agricultural crops

I. TRAINING PROCESS SCHEDULE

training specialists second (master's) level of higher education in 2017 entry specialty «Agronomy» of educational program «Selection and Genetics of Agricultural Crops»

Year of study	2017year												2018year																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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Legend:

-	theoretical training	X	-	scientific-practical training
-	examination session	II	-	preparation of master's work
-	vacation	//	-	state certification (protection of master's thesis)

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)			Individual work			Practical training		Distribution of hours per week within an acad. year and semesters		
		Hours	Credits	Semesters			Total	Including		12	13	14	1 year semester		2 year semester		
				Exam	Test	Course paper		Lectures	Laboratory classes				Seminars	1		2	3
1. STANDARD ACADEMIC DISCIPLINES																	
1		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
1	Applied ecology and biology of plants	90	3		t		30	15	15		60			2			
2	Soil management regimes for innovative technologies	120	4	e			30	15	15		90			2			
3	Agrochemical service in plant growing	90	3	e			30	15	15		60			2			
4	Adaptive systems of agriculture	120	4	e		CW	30	15	15		90			2			
5	Modern agricultural technologies create highly ekolohizovani grasslands and their rational use	90	3	e			30	15	15		60			2			
6	Post-harvest handling and storage of plant products	90	3		t		30	15	15		60			2			
7	Varietal certification	90	3		t		30	15	15		60			2			
8	Qualitative assessment of soil and land	90	3	e			30	15	15		60				2		
9	Innovative technologies in Plant Growing	120	4	e		CW	45	15	30		75				3		
10	Diagnostic of the crop nutrition	90	3	e			45	15	30		45				3		
11	Biological risk factors in agriculture and their control	90	3		t		30	15	15		60				2		
12	Processing of plant production	90	3	e			30	15	15		60				2		
13	Energy-saving technology of growing and harvesting high-protein high-grade feed	90	3		t		30	15	15		60				2		
14	Varietal resources and its formation	90	3	e			30	15	15		60				2		
Total		1350	45	9	5	2	450	210	240	0	900	0	0	14	16	0	
2. ELECTIVE ACADEMIC DISCIPLINES																	
2.1. Disciplines offered by University																	
1	Methodology and organization of scientific research on the basics of intellectual property	90	3		t		30	15	15		60			2			
2	Business foreign language	150	5	e			30		30		120			2			

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
3	Agricultural policy	90	3		t		30	15	15		60				2	
Total		330	11	1	2		90	30	60		240			4	2	0
2.2. Disciplines offered by students																
Master's program «State scientific and technical expertise of plant varieties and their legal protection»																
1	Breeding and Seed-growing heterosis hybrids	150	5	e			40	20		20	110					4
2	Special genetic field crops	150	5	e		CW	40	20		20	110					4
3	Genetics immunity against diseases and pests	120	4	e			40	20		20	80					4
4	State qualifying examination	180	6	e			60	30		30	120					6
Total		600	20	4		1	180	90	0	90	420	0	0	0	0	18
Total for elective part		930	31	5	2	1	270	120	0	150	660	0	0	4	2	18
3. OTHER FORMS OF TRAINING																
Master's thesis preparation and defense																
Practical training		120	4													
Course work		300	10													
Tests																
Exams																
Total for educational program		2700	90	14	7	3	720	330	240	150	1560	0	0	18	18	18

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standart academic disciplines	1350	45	50
2. Elective academic disciplines	930	31	34,5
2.1. Disciplines offered by University	330	11	12,2
2.2. Disciplines offered by students	600	20	22,3
3. Other forms of training	420	14	15,5
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of baccalaureate work	State examination	Holidays	Total
1	30	4	10	–	–	8	52
2	10	2	–	3	1	–	16
Total	40	6	10	3	1	8	68

V. PRACTICAL TRAINING

№	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Industrial (research) practice	1, 2	300	10	10

VI. COURSE PAPER AND PROJECTS

№	Discipline	Hours	Credits	Course paper	Course projects
1	Adaptive systems of agriculture	15	0,5		
2	Innovative technologies in Plant Growing	15	0,5		
3	Special genetic field crops	15	0,5		

VII. STATE CERTIFICATION

N	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	120	4	4

CURRICULUM of training specialists in 2017 academic year

Level of higher education	the second (Master)
Branch of knowledge	20 «Agricultural science and food»
Specialty	203 «Horticulture and Viticulture»
Educational program	«Horticulture and Viticulture»
Orientation of educational program	educational and professional
Master's program	«Horticulture»
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis	of the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	Horticulture and viticulture researcher

training specialists second (master's) level of higher education in 2017 entry specialty «Horticulture and Viticulture» of educational program «Horticulture and Viticulture»

Legend:

X	- scientific-practical training
II	- preparation of master's work
//	- state certification (protection of master's thesis)

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work		Practical training		Distribution of hours per week within an acad. year and semesters		
		Hours	Credits	Semesters		Course paper	Total	Including		12	13	14	15	semester			
				Exam	Test			Lectures	Laboratory classes					Seminars	1	2	3
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
1. STANDARD ACADEMIC DISCIPLINES																	
1	Progressiveness technologies in horticulture and viticulture	330	11	e		CW	105	45	60			225			7		
2	Mushrooms cultivation	180	6	e			60	30	30			120			4		
3	Agribusiness and marketing in gardening, horticulture and viticulture	90	3	e			30	15	15			60			2		
4	Quality and logistics for storage, processing of fruit and vegetables	90	3		t		30	15	15			60				2	
5	Progressiveness technologies of vegetable-growing in field terms and protected cultivated	360	12	e		CW	120	60	60			240				8	
6	Post harvest handling of fruits, vegetables and grapes	150	5	e			45	15	30			105				3	
7	Floriculture in open and closed ground	150	5	e			45	15	30			105				3	
Total		1350	45	6	1	2	435	195	240	0	915			13	16	0	
2. ELECTIVE ACADEMIC DISCIPLINES																	
2.1. Disciplines offered by University																	
1	Methodology and organization of scientific research on the basics of intellectual property	90	3		t		30	15	15		60					2	
2	Business foreign language	150	5	e			45		45		105				3		
3	Agricultural policy	90	3		t		30	15		15	60				2		
Total		330	11	1	2		105	30	60	15	225				5	2	
2.2. Disciplines offered by students																	
Master's program «Horticulture»																	
1	Uncommon fruit and berry plants	90	3	e			30	10	20		60					3	
2	Progressive technologies in nursery	120	4	e			30	10	20		90					3	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
3	Organic vegetable-growing in field terms and protected cultivated	180	6	e		CW	60	20	40		120					6
4	Cultivar vegetables	120	4	e			30	10	20		90					3
5	Few broaden cultures of the protected cultivated	90	3		t		30	20	10		60					3
Total		600	20	4	1	1	180	70	110	0	420	0	0	0	0	18
Total for elective part		930	31	5	3	1	285	100	170	15	645	0	0	5	2	18
3. OTHER FORMS OF TRAINING																
Master's thesis preparation and defense		120	4													
Practical training		300	10													
Course work						3										
Tests					3											
Exams				11												
Total for educational program		2700	90	11	3	3	720	295	410	15	1560	0	0	18	18	18

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standart academic disciplines	1350	45	50
2. Elective academic disciplines	930	31	34,5
2.1. Disciplines offered by University	330	11	12,2
2.2. Disciplines offered by students	600	20	22,3
3. Other forms of training	420	14	15,5
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of baccalaureate work	State examination	Holidays	Total
1	30	4	10	–	–	8	52
2	10	2	–	3	1	–	16
Total	40	6	10	3	1	8	68

V. PRACTICAL TRAINING

Nº	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Industrial (research) practice	1, 2	300	10	10

VI. COURSE PAPER AND PROJECTS

Nº	Discipline	Hours	Credits	Course paper	Course projects
1	Progressiveness technologies in horticulture and viticulture	15	0,5		
2	Progressiveness technologies of vegetable-growing in field terms and protected cultivated	15	0,5		
3	Organic vegetable-growing in field terms and protected cultivated	15	0,5		

VII. STATE CERTIFICATION

N	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	120	4	4

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE
FACULTY OF PLANT PROTECTION, BIOTECHNOLOGY AND ECOLOGY**

**CURRICULUM
of training specialists in 2017 academic year**

Level of higher education	the second (Master)
Branch of knowledge	10 «Natural Sciences»
Specialty	101 «Ecology»
Educational program	«Ecology and environmental protection»
Orientation of educational program	educational and professional
Master's program	«Environmental management in the agricultural domain: monitoring, certification, expertise»
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	Ecologist; teacher of higher education institution

I. TRAINING PROCESS SCHEDULE

training specialists second (master's) level of higher education in 2017 entry specialty «Ecology and environmental protection» of educational program «Ecology and environmental protection»

[illegible]

Legend:

	-	theoretical training	X	-	scientific-practical training
	-	examination session	II	-	preparation of master's work
	-	vacation	//	-	state certification (protection of master's thesis)

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)			Independent work			Practical training		Distribution of weekly hours by years of study and semesters		
		hours	Credits	Exam	Test	Course paper	Total	Including		practical training	manufacturing practice	1 year		2 year			
								Lecture	Laboratory classes			Seminars	1			2	3
I. STANDARD ACADEMIC DISCIPLINES																	
1		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
1	Civil defense	60	2		1		15			15	45				1		
2	Labor Safety in the industry	30	1	1			15	10		5	15				1		
3	Pedagogy and Psychology of high school	60	2	1		1	30	15		15	30			2			
4	Teaching methods at higher school	60	2		1		30	30			30			2			
5	Methods and organization of scientific studies	60	2	1			30	15	15		30			2			
6	Sustainable development strategy	90	3		1		60	30		30	30				4		
7	Ecological management and audit	60	2		1		30	15		15	30			2			
8	Systems analysis of environmental quality. GIS analysis of agrolandscapes.	150	5	1			45	15		30	105				3		
Total		600	20	4	4	1	285	145	15	125	315	0	0	8	9		
2. ELECTIVE ACADEMIC DISCIPLINES																	
2.1. Disciplines offered by University																	
1	Agricultural and Ecological policy	90	3		1		45	30		15	45			3			
2	Intellectual property and world information resources	60	2		1		30	15		15	30				2		
3	Agricultural radio-ecology	120	4		1		30	15		15	90				2		
4	Problems of environmental safety and modern concepts of nature use	150	5		1		30	15		15	120				3		
5	Philosophy of science and innovation development	60	2	1			30	15		15	30			2			
6	Business foreign language	120	4	1			60			60	60			2	2	1	
7	Agricultural, Land and environmental Law	30	1		1		15	15			15			1			

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
8	Information technologies	90	3	1		1	30	15	15		60				2	
9	Ecological standardization and certification	90	3	1			30	15		15	60				2	
	Total	810	27	4	5	1	300	135	15	150	510	0	0	8	13	1
2.2. Disciplines offered by students																
2.2.1. Master's program «Environmental control in agrosphere: monitoring, certification, expertise»																
1	Agroecology	180	6	1			40	20	20		140					4
2	Ecological expertise in agriculture (agrobiology)	90	3	1		1	50	20		30	40					5
3	Environmental monitoring and control (monitoring, certification, management, inspection)	180	6	1			60	20	40		120					6
4	Agrarian Biotechnologies	90	3			1	30	10	20		60					3
	Total	540	18	3	1	1	180	70	80		360	0	0	0	0	18
	Total	1950	65	13	9	3	765	350	110	305	1185			28	48	19
	Preparation and defense of master's thesis	150	5													
	Practice preparation	600	20									540	60			
	Number of coursework	3				3										
	Number of tests	12			10											
	Number of examinations	11		11												
	Total	2700	90	11	10	3	765	350	110	305	1185	540	60	28	48	19

III. СТРУКТУРА НАВЧАЛЬНОГО ПЛАНУ

Educational disciplines	Hours	Credits	%
1. STANDARD ACADEMIC DISCIPLINES	600	20	22
2. ELECTIVE ACADEMIC DISCIPLINES	1350	45	50
2.1. Disciplines offered by University	810	27	30
2.2. Disciplines offered by students	540	18	20
3. OTHER TYPES OF TRAINING	750	25	28
Total for educational program	2700	90	100

IV. SUMMARY INFORMATION ABOUT BUDGET TIME, WEEKS

Year of education	Theoretical education	Examination period	Practical preparation	Preparation of baccalaureate work	State attestation	Holidays	Total
1	30	6	16	-	-	8	60
2	10	2	-	4	2		18
Total	40	8	16	4	2	8	78

V. PRACTICAL PREPARATION

№	Type of practice	Semester	Hours	Credits	Number of weeks
1	Pedagogical (assistant) practice	2	60	2	2
2	Scientific and productional	1,2,3	540	18	18

VI. COURSEWORKS AND PROJECTS

№	Discipline	Hours	Credits	Courseworks	Projects
1	Methodology of teaching in higher education			x	
2	Information technology			x	
3	Ecological Expertise for agriculture in production			x	
4	Water quality monitoring in agrosphere			x	

VII. STATE ATTESTATION

№	Content of state attestation	Hours	Credits	Number of weeks
1	Defense of master's thesis	30	1	1

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE**

FACULTY OF PLANT PROTECTION, BIOTECHNOLOGY AND ECOLOGY

**CURRICULUM
of training specialists in 2017 academic year**

Level of higher education	the second (Master)
Branch of knowledge	10 «Natural Sciences»
Specialty	101 «Ecology»
Educational program	«Ecological control and audit»
Orientation of educational program	educational and professional
Master's program	«Control and expert regulation in the agrosphere»
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	Expert on ecology

I. TRAINING PROCESS SCHEDULE
training specialists second (master's) level of higher education in 2017 entry
specialty «Ecology» of educational program «Ecological control and audit»

Year of study	2017 year												2018 year																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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Legend:

	-	theoretical training	X	-	scientific-practical training
:	-	examination session	II	-	preparation of master's work
-	-	vacation	//	-	state certification (protection of master's thesis)

II. CURRICULUM OF THE EDUCATIONAL PROCESS

№	Distribution of hours per week within an acad. year and semesters	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Independent work		Practical training		Distribution of weekly hours by years of study and semesters			
		hours	Credits	Exam	Test	Course paper	Total	Including			12	13	14	1 year		2 year		
								Lecture	Laboratory classes	Seminars				1	2			
																	Number of weeks in a semester	
		3	4	5	6	7	8	9	10	11	15	16	17					
I. STANDARD ACADEMIC DISCIPLINES																		
1	Civil defense	30	1		1		15			15						1		
2	Labor safety in the industry	30	1	1			15	10		5	15					1		
3	Sustainable development strategy	90	3		1		30	15		15	60				2			
4	Methods and organization of scientific studies	120	4	1			30	15	15		90				2			
5	Ecological inspection	210	7	1	1		60	30	30		150				2	2		
6	Ecological management	210	7	1	1	1	60	30	30		150				2	2		
7	Ecological audit	210	7	1	1	1	60	30		30	150				2	2		
	Total	900	30	5	5	2	270	130	75	65	630	0	0	0	10	8	0	
2. ELECTIVE ACADEMIC DISCIPLINES																		
2.1. Disciplines offered by University																		
1	Ecological policy	120	4	1			45	30		15	75				3			
2	High education and Bologna process	90	3		1		30	30			60				2			
3	Intellectual property	60	2		1		15	15			45				1			
4	Systems analysis of environmental quality	90	3		1		30	15		15	60				2			
5	Business foreign language	120	4	1			60	30		30	60				4			
6	Ecological control and safety	90	3	1			45			45	45				3			
7	Regulatory and methodological support of control of expert activity of ecologist	90	3		1		30	10		20	60						3	
8	Ecological and low regulation of environment	90	3	1			30	15		15	60				3			
9	Methods of environmental analyses	90	3		1		20	10		10	70						2	
	Total	840	28	4	5	0	305	155	0	150	535	0	0	0	8	10	5	
2.2. Disciplines offered by students																		
2.2.1. Master's program «Control and expert regulation in the agrosphere»																		
1	Ecological expertise and audit of areas and enterprises	120	4	1			30	10	20		90						3	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
	Soil and environmental monitoring and management of land resources in the agrosphere	120	4	1			40	20	20		80					
3	Professional ecological expert activity	90	3	1			30	10	20		60					3
4	Ecotoxicological estimation of pesticides, agrochemicals and technologies	90	3		1		30	10	20		60					3
	Total	420	14	3	1	0	130	50	80	0	290	0	0	0	0	13
	Total for elective part	2160	72	12	11	0	705				1455			18	18	18
	Master Thesis processing and defense	360	12													
	Practical training	180	6									180				
	Number of coursework					2										
	Number of tests				11											
	Number of examinations			13												
	Total for educational program	2700	90	12	11	2	705	0	0	0	1455	216	0	18	18	18

III. STRUCTURE OF CURRICULUM

Subject	hours	credits	%
1. STANDARD ACADEMIC DISCIPLINES	900	30	33
2. ELECTIVE ACADEMIC DISCIPLINES	1260	42	47
2.1. Disciplines offered by University	840	28	31
2.2. Disciplines offered by students	420	14	16
3. OTHER TYPES OF TRAINING	540	18	20
Total for educational program	2700	90	100

IV. SUMMARY INFORMATION ABOUT BUDGET TIME, WEEKS

Year of education	Theoretical education	Examination period	Practical preparation	Preparation of baccalaureate work	State attestation	Holidays	Total
1	30	6	6	8		8	58
2	10	2		4	1		17
Total	46	6	8	12	1		75

V. PRACTICAL TRAINING

Nº	Type of practice	Semester	Hours	Credits	Number of weeks
1	Scientific and productional	1,2	216	6	6

VI. COURSE WORK (PROJECT)

Nº	Subject	Hours	Credits	Courseworks	Projects
1	Ecological management	30	1	x	
2	Ecological audit	30	1	x	

VII. STATE ATTESTATION

Nº	Content of state attestation	Hours	Credits	Number of weeks
1	Defense of master's thesis	30	1	1

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE**

FACULTY OF PLANT PROTECTION, BIOTECHNOLOGY AND ECOLOGY

**CURRICULUM
of training specialists in 2017 academic year**

Level of higher education	the second (Master)
Branch of knowledge	16 «Chemical and bioengineering»
Specialty	162 «Biotechnology and bioengineering»
Educational program	«Environmental biotechnology and bioenergetics»
Orientation of educational program	educational and professional
Master's program	«DNA certification and genome mapping», «Biosafety and bioethics»
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	biotechnologist

I. TRAINING PROCESS SCHEDULE
training specialists second (master's) level of higher education in 2017 entry
specialty «Biotechnology and bioengineering» of educational program « Environmental biotechnology and bioenergetics»

Year of study	2017 year												2018 year																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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Legend:

-	theoretical training	-	scientific-practical training
-	examination session	-	preparation of master's work
-	vacation	-	state certification (protection of master's thesis)

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Disciplines	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work			Practical training		Distribution of hours per week within an acad. year and semesters	
		Hours	Credits	Exam	Test	Course paper	Including			12	13	14					
							Total	Lectures	Laboratory classes				Seminars				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
1. STANDARD ACADEMIC DISCIPLINES																	
1	Philosophy of science and innovation development	60	2	e			30	15		15	30			2			
2	Civil defense	90	3		t		15			15	75				1		
3	World agriculture and food resources	60	2		t		30	15		15	30			2			
4	Strategy of sustainable development of nature and society	60	2		t		15	15			45			1			
5	Applied Genetics with the basics of Cytology	60	2	e			60	30	30						4		
6	Ecology Biotechnology	90	3	e			30	15	15		60				2		
7	Plant Biotechnology	90	3	e		c.p	60	30	30		30				4		
8	Alternative energy: bioenergy and bioenergy conversion	90	3		t		15	15			75				1		
9	Information Technology	90	3		t		30	15	15		60				2		
10	Applied Ecology	90	3	e			30	15	15		60			2			
11	Biological Statistics	90	3		t		30	15		15	60						2
Total		870	29				345	180	105	60	525			7	14	2	
2. ELECTIVE ACADEMIC DISCIPLINES																	
2.1. Disciplines offered by University																	
1	Methodology and organization of scientific research on the basics of intellectual property	90	3		t		30	15		15	60				2		
2	Business foreign language	120	4	e			30			30	90				2		
3	Agricultural policy	90	3		t		30	15		15	60				2		
4	Instrumental methods of analysis	90	3	e			45	15	30		45				3		
5	Agricultural Radiobiology and Radioecology	90	3	e			30	15	15		60				2		
6	Biosafety	90	3		t		30	15		15	60					2	
7	Design bioprocess	120	4	e		c.p	30	15		15	90						2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
8	Biotechnology in agriculture and biotechnology in environmental biotechnologies	90	3		t		15	15			75				1	
9	Biomarketing of biotech products	60	2		t		30	15		15	30					2
Total		840	28				270	120	45	105	570			11	3	4
2.2. Disciplines offered by students																
Master's program " DNA-certification and mapping the genome "																
1	Diagnosis and identification of GMO DNA Passport	120	4	e			45	15	30							3
2	Cell and Molecular Biology	120	4		t		30	15	15							2
3	Population genetics	90	3	e			30	15	15							2
4	Genetic Engineering	90	3		t		45	15	30							3
5	Molecular Virology	120	4		t		30	15	15							2
Total		540	18				180	75	105		360					12
Master's program " Biosafety and bioethics "																
1	Microclonal plant propagation	90	3	e			30	15	15							2
2	Technology in vitro in crop growing	90	3		t		30	15	15							2
3	Biotechnology Biosafety	90	3		t		30	15	15							2
4	Immune Biotechnology	90	3	e			30	15	15							2
5	Biology of individual	90	3		t		30	15	15							2
6	Cell selection for resistance	90	3		t		30	15	15							2
Total		540	18				180	90	90		360					12
3. OTHER FORMS OF TRAINING																
Practical training																
Master's thesis preparation and defense		300	10													
Course work (project)		150	5													
Tests						2										
Exams					15											
Total for educational program		2700	90	11	15	2	795	390	240	165	1455			18	17	18

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standart academic disciplines	870	29	32,2
2. Elective academic disciplines	1380	46	-
2.1. Disciplines offered by University	840	28	31,1
2.2. Disciplines offered by students	540	18	20
3. Other forms of training	450	15	16,7
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	30	5	6	-	-	11	52
2	10	2		3	1	-	16
Total	40	7	6	3	1	11	68

V. PRACTICAL TRAINING

Nº	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Practical training	2	180	6	6
2	Practical training	3	120	4	4

VI. COURSE PAPER AND PROJECTS

Nº	Discipline	Hours	Credits	Course paper	Course work
1	Plant Biotechnology	1	30	1	C.W.
2	Design bioprocess	1	30	3	C.W.

VII. STATE CERTIFICATION

N	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	30	1	1

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE**

FACULTY OF PLANT PROTECTION, BIOTECHNOLOGY AND ECOLOGY

**CURRICULUM
of training specialists in 2017 academic year**

Level of higher education	the second (Master)
Branch of knowledge	20 «Agricultural science and food»
Specialty	202 «Plant Protection and Plant Quarantine»
Educational program	«Plant protection»
Orientation of educational program	educational and professional
Master's program	«Biological justification of obligate and facultative pathogens control», «Phytosanitary monitoring and forecasting»
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	Plant Protection Scientists

I. TRAINING PROCESS SCHEDULE

training specialists second (master's) level of higher education in 2017 entry specialty «Plant Protection and Plant Quarantine» of educational program «Plant protection»

[illegible]

Legend:

-	theoretical training	X	-	scientific-practical training
-	examination session	II	-	preparation of master's work
-	vacation	//	-	state certification (protection of master's thesis)

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Disciplines	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work			Practical training		Distribution of hours per week within an acad. year and semesters		
		Hours	Credits	Exam	Test	Course paper	Including			practical training			manufacturing practice					
							Total											
								Lectures	Laboratory classes						Seminars			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	15	16	17	
1. STANDARD ACADEMIC DISCIPLINES																		
1	Logistic and communications in Plant Protection	90	3		3		30	15		15	60						2	
2	Standardization and jurisprudence in plant protection	30	1		3		30	15		15	30						2	
3	Managing the number of weeds in agrophytocenoses	90	3		3		30	15		15	60					2		
4	Complex systems of crop plant protection from diseases	90	3		3		30	15	15		60					2		
5	Phytofagous insect management	90	3	i			30	15		15	60						2	
6	Civil Defence	30	1		3		30	15		15	60					2		
7	Toxicology of Pesticides	120	4	i			30	15		15	60						2	
8	Technology of mass rearing of beneficial insects	150	5	i			30	15		15	90						2	
9	Epiphytology	90	3	i			30	15		15	60					2		
10	Crop Seed pathology	90	3		3		30	15	15		60						2	
11	Labour protection in plant protection	30	1	i			10	10			80							1
Total		900	30	5	6		310	160	30	120	590				8	12	1	
2. ELECTIVE ACADEMIC DISCIPLINES																		
2.1. Disciplines offered by University																		
1	Methodology and organization of scientific research on the basics of intellectual property	90	3	i			45	15	30		45				3			
2	Business foreign language	150	5	i			30		30		120				2			
3	Agricultural policy	90	3		3		30	15		15	60				2			
4	Economic and organization of agricultural service	90	3		3		15	15			45				1			
5	Biosafety in Plant Protection	90	3	i			30	15		15	30					2		
6	Desinfection of Management objects	90	3	i			30	15		15	60				2			
7	Methods of plant protectant testing	90	3	i			30	15		15	30					2		
Total		690	23	5	3		240	105	60	75	450				10	6		
2.2. Disciplines offered by students																		

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Master's program " Biological justification of obligate and facultative pathogens control "																
1	Actinomitsetes diseases of plant	90	3	i			30	10	20		60					3
2	Physiological and biochemical aspects of plant resistance to disease	120	4	i			30	10	20		90					3
3	Mycotoxycology	120	4	i			50	20	30		70					5
4	Methods for infectious backgrounds forming in phytopathology	90	3		3		20	10	10		70					2
5	Pathogenesis in plant production	90	3		3		20	10	10		70					2
6	Pathological process of plants' root system	90	3		3		20	10	10		70					2
Total		600	20	3	3		170	70	100		430					17
Master's program " Phytosanitary monitoring and forecasting "																
1	Experimental research methods in entomology	120	4	i			40	20	20		50					4
2	Insect pathology	120	4	i			40	20	20		80					4
3	Insects ecology	120	4	i			40	20	20		80					4
4	Insect physiology	120	4		3		30	10	20		90					3
5	Technical entomology	120	4		3		20	10	10		100					2
Total		600	20	3	2		170	80	90		430					17
3. OTHER FORMS OF TRAINING																
Practical training																
Master's thesis preparation and defense		300	11													
Course work (project)		180	6													
Tests					11											
Exams				13												
Total for educational program		2700	90	13	15		740	335	210	195	1480			18	18	18

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standart academic disciplines	900	30	33,3
2. Elective academic disciplines	1290	43	47,7
2.1. Disciplines offered by University	690	23	25,6
2.2. Disciplines offered by students	600	20	
3. Other forms of training	510	17	18,9
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	30	5	6	-	-	11	52
2	10	2	-	3	1	-	16
Total	40	7	6	3	1	11	68

V. PRACTICAL TRAINING

Nº	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Practical training	2	180	6	6

VI. COURSE PAPER AND PROJECTS

Nº	Discipline	Hours	Credits	Course paper	Course work
-	-	-	-	-	-

VII. STATE CERTIFICATION

N	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	30	1	1

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE**

FACULTY OF PLANT PROTECTION, BIOTECHNOLOGY AND ECOLOGY

**CURRICULUM
of training specialists in 2017 academic year**

Level of higher education	the second (Master)
Branch of knowledge	20 «Agricultural science and food»
Specialty	202 «Plant Protection and Plant Quarantine»
Educational program	«Plant Quarantine»
Orientation of educational program	educational and professional
Master's program	«Plant Quarantine»
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	Plant Quarantine Scientists

I. TRAINING PROCESS SCHEDULE
training specialists second (master's) level of higher education in 2017 entry
specialty «Plant Protection and Plant Quarantine» of educational program «Plant Quarantine»

Year of study	2017 year												2018 year																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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Legend:

	-	theoretical training
:	-	examination session
-	-	vacation
X	-	scientific-practical training
II	-	preparation of master's work
//	-	state certification (protection of master's thesis)

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Disciplines	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work			Practical training		Distribution of hours per week within an acad. year and semesters		
		Hours	Credits	Exam	Test	Course paper	Total	Including			12	13	14	1 year		2 year		
								Lectures	Laboratory classes	Seminars				1	2			
																	Number of weeks in semester	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	15	16	17	
1. STANDARD ACADEMIC DISCIPLINES																		
1	Civil Defence	90	3		3		30	15		15	60					2		
2	Labour protection in plant	90	3		3		10	10			80						1	
3	External and internal quarantine	90	3		3		30	15		15	60				2			
4	Methods for inspection and examination of objects of regulation	90	3		3		30	15		15	60				2			
5	Quarantine pests	210	7	i	3	KP	30	15		15	180				2	2		
6	Phytosanitary law and international cooperation	120	4		3		30	15		15	90					2		
7	Integrated pest management	120	4	i	3		30	15		15	120				4	2		
Total		810	27	2	7	1	190	100		90	650			10	8	1		
2. ELECTIVE ACADEMIC DISCIPLINES																		
2.1. Disciplines offered by University																		
1	Methodology and organization of scientific research on the basics of intellectual property	90	3	i			45	15	15	15	45				3			
2	Business foreign language	150	5	i			30		30		120				2			
3	Agricultural policy	90	3		3		30	15		15	60					2		
4	Economic and organization of agricultural service	90	3		3		30	15		15	60					2		
5	Biosafety in Plant Protection	90	3		3		30	15		15	60					2		
6	Desinfection of Management objects	90	3	i			30	15		15	60					2		
Total		600	20	3	3		195	75	45	60	405				5	6		
2.2. Disciplines offered by students																		
Master's program "Plant Quarantine"																		
1	International phytosanitary standards	150	5	i			30	15		15	90				2			
2	Introductive pests	120	4	i			40	20	20		80						4	
3	Quarantine pest risk evaluation	120	4	i			30	15		15	60					2		
4	Geography quarantine organisms	150	5	i			40	20	20		80						2	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
5	Harmful organisms Ukraine in the international phytosanitary	150	5		3		30	10	20		60					2
6	Guarantine of forest crops	120	4		3		60	24	36		60					3
Total		810	27	4	2		230	104	96	30	430			2	2	16
3. OTHER FORMS OF TRAINING																
Practical training		300	10													
Master's thesis preparation and defense		180	6													
Course work (project)																
Tests					12											
Exams				10												
Total for educational program		2700	90	10	12	1	615	279	141	180	1545			17	18	17

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standart academic disciplines	810	27	30,0
2. Elective academic disciplines	1410	47	52,2
2.1. Disciplines offered by University	600	20	-
2.2. Disciplines offered by students	810	27	-
3. Other forms of training	480	16	17,8
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	30	5	6	-	-	11	52
2	10	2	-	3	1	-	16
Total	40	7	6	3	1	11	68

V. PRACTICAL TRAINING

Nº	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Practical training	2	150	5	5

VI. COURSE PAPER AND PROJECTS

Nº	Discipline	Hours	Credits	Course paper	Course work
1	Quarantine pests	30	1	к.р	-

VII. STATE CERTIFICATION

N	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	30	1	1

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE**

FACULTY OF ANIMAL SCIENCES AND WATER BIORESOURCES

CURRICULUM

of training specialists in 2017 academic year

Level of higher education	the second (Master)
Branch of knowledge	20 «Agrarian sciences and food»
Specialty	204 «Technology of the production and processing of animal products»
Educational program	«Technology of the production and processing of animal products»
Orientation of educational program	educational and professional
Master's programs	«Specific animal husbandry», «Support services of the production and processing of organic milk», «Animal nutrition», «Hippodrome industry and sports horse breeding», «Technologies of the efficient use of the potential of the bee family», «The preservation and use of animal genetic resources», «Dairy cattle breeding», «Specific meat cattle breeding», «Technological management in pig breeding», «Modern technologies of commercial poultry breeding», «Technologies in rabbit and fur farming», «Technologies in sheep and goat breeding»
Form of training	Full-time
Term of study (Credits)	1,5 years (90)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	technologist-researcher of the production and processing of animal products

training specialists of the second (Master's) level of higher education in 2017 entry specialty 204 «Technology of the production and processing of animal products»

67

	-	theoretical training
:	-	examination session
-	-	vacation

scientific-practical training
preparation of Master's work
state certification (defense of

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work				Practical training		Distribution of hours per week within an acad. year and semesters	
		Hours	Credits	Semesters			Total	Including			practical training	manufacturing training	the 1 st year		the 2 nd year			
				Exam	Test	Course paper (project)		Lectures	Laboratory classes	Seminars			semester					
													1	2	3			
													Number of weeks in a semester					
													15	15	15			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
1. STANDARD ACADEMIC DISCIPLINES																		
1	Work safety and civil protection in animal husbandry	90	3	1	-	-	30	15	-	15	60	-	-	2	-	-	-	
2	Biology of agricultural animals productivity	120	4	1	-	-	30	15	-	15	90	-	-	2	-	-	-	
3	Food resources in animal husbandry	120	4	1	-	-	45	15	-	30	75	-	-	3	-	-	-	
4	Management of the production of animal products	90	3	1	-	1	30	15	15	-	60	-	-	2	-	-	-	
5	Manufacturing management in animal husbandry	120	4	-	2	-	30	15	-	15	90	-	-	-	2	-	-	
6	Modern selection methods in animal husbandry	120	4	2	-	-	60	30	30	-	60	-	-	-	4	-	-	
7	Information technologies in animal husbandry	120	4	-	1	-	30	15	-	15	90	-	-	-	2	-	-	
8	Organization of business in animal husbandry	120	4	-	2	-	30	15	-	15	90	-	-	-	2	-	-	
9	Technologies of the production and processing of animal products	300	10	2	1	2	150	75	75	-	150	-	90	6	4	-	-	
10	Philosophical issues of biology	90	3	-	1	-	15	15	-	-	75	-	-	1	-	-	-	
Total		1290	43	6	5	2	450	225	120	105	840	-	90	16	14	-	-	
Total for standard part		1290	43	6	5	2	450	225	120	105	840	-	90	16	14	-	-	
2. ELECTIVE ACADEMIC DISCIPLINES																		
2.1. Disciplines offered by University																		
1	Methodology and organization of scientific researches with fundamentals of intellectual property	90	3	-	1	-	30	15	-	15	60	-	-	-	2	-	-	
2	Business English	150	5	1	-	-	30	-	-	30	120	-	-	2	-	-	-	
3	Agrarian policy	90	3	-	1	-	30	15	-	15	60	-	-	-	2	-	-	
Total		330	11	1	2	-	90	30	-	60	240	-	-	2	4	-	-	
2.2. Disciplines offered by students																		
Master's program «Specific animal husbandry»																		
1	Biology of wild and exotic animals	120	4	-	3	-	30	10	20	-	90	-	-	-	-	-	3	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
2	Management of biocenosis	240	8	3	-	3	60	30	30	-	180	-	60	-	-	6
3	Technologies of the protection of animal world	90	3	3	-	-	30	10	20	-	60	-	-	-	-	3
4	Technologies of animal breeding and introduction	150	5	3	-	-	60	30	30	-	90	-	90	-	-	6
Total		600	20	3	1	1	180	80	100	-	420	-	150	-	-	18
Master's program «Support services of the production and processing of organic milk»																
1	Methods of assessing the production conditions	150	5	3	-	-	40	20	20	-	110	-	60	-	-	4
2	Monitoring of the quality of milk from animals of different breeds	150	5	3	-	-	60	30	30	-	90	-	90	-	-	6
3	Modern systems of dairy management	120	4	-	3	-	30	10	20	-	90	-	-	-	-	3
4	Administration of the quality of organic production	180	6	3	-	3	50	20	30	-	130	-	-	-	-	5
Total		600	20	3	1	1	180	80	100	-	420	-	150	-	-	18
Master's program «Animal nutrition»																
1	Animal nutrition	90	3	3	-	-	20	10	10	-	70	-	60	-	-	2
2	Assessment of food quality and nutrition	120	4	-	3	-	30	10	20	-	90	-	90	-	-	3
3	Ruminants nutrition	150	5	3	-	-	50	20	30	-	100	-	-	-	-	5
4	Nutrition of monogastric animals and poultry	150	5	3	-	3	50	20	30	-	100	-	-	-	-	5
5	Fish nutrition	90	3	-	3	-	30	10	20	-	60	-	-	-	-	3
Total		600	20	3	2	1	180	70	110	-	420	-	150	-	-	18
Master's program «Hippodrome industry and sports horse breeding»																
1	Global horse genetic resources	90	3	-	3	-	30	10	20	-	60	-	60	-	-	3
2	Hippodrome and sports training	150	5	3	-	3	60	30	30	-	90	-	90	-	-	6
3	Horse breeding	120	4	3	-	-	30	10	20	-	90	-	-	-	-	3
4	Organization of horse breeding	120	4	3	-	-	30	10	20	-	90	-	-	-	-	6
5	Horse biology	120	4	3	-	-	30	10	20	-	90	-	-	-	-	3
Total		600	20	4	1	1	180	70	110	-	420	-	150	-	-	18
Master's program «Technologies of the efficient use of the potential of the bee family»																
1	Biology of the bee family	90	3	-	3	-	30	10	20	-	60	-	-	-	-	3
2	Bees breeding and keeping	120	4	3	-	-	30	10	20	-	60	-	60	-	-	3
3	The production, preservation and processing of beekeeping products	150	5	3	-	3	30	10	20	-	60	-	90	-	-	3
4	Technological equipment of beekeeping	120	4	3	-	-	60	20	40	-	180	-	-	-	-	6
5	Preventive measures of bee family diseases	120	4	-	3	-	30	10	20	-	60	-	-	-	-	3
Total		600	20	3	2	1	180	60	120	-	420	-	150	-	-	18
Master's program «The preservation and use of animal genetic resources»																
1	Technologies of animal selection	150	5	3	-	-	60	20	40	-	90	-	90	-	-	6
2	Preservation of animal genetic resources	150	5	3	-	3	30	10	20	-	120	-	60	-	-	3
3	Administration of animal selection process	120	4	-	3	-	30	10	20	-	90	-	-	-	-	3

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
4	Reproduction biotechnology	90	3	3	-	-	30	10	20	-	60	-	-	-	-	3
5	Genetics of quantitative and qualitative features of animals	90	3	3	-	-	30	10	20	-	60	-	-	-	-	3
Total		600	20	4	1	1	180	60	120	-	420	-	150	-	-	18
Master's program «Dairy cattle breeding»																
1	Physiology of lactation	120	4	3	-	-	40	20	20	-	80	-	60	-	-	4
2	Administration of dairy productivity	120	4	3	-	-	40	20	20	-	80	-	90	-	-	4
3	Intensive technologies of young cattle growing	120	4	3	-	3	20	10	10	-	100	-	-	-	-	2
4	Technological management and marketing in cattle industry	120	4	3	-	-	40	20	20	-	80	-	-	-	-	4
5	Administration of product quality at a dairy farm	120	4	-	3	-	40	10	30	-	80	-	-	-	-	4
Total		600	20	4	1	1	180	80	100	-	420	-	150	-	-	18
Master's program «Specific meat cattle breeding»																
1	Administration of the process of the production of meat cattle products	120	4	3	-	-	60	20	40	-	60	-	-	-	-	6
2	Systems of meat cattle keeping	120	4	3	-	-	30	10	20	-	90	-	90	-	-	3
3	Management of productivity	120	4	3	-	-	30	10	20	-	90	-	-	-	-	3
4	Processing of meat cattle	120	4	-	3	3	30	10	20	-	90	-	60	-	-	3
5	Production of eco friendly beef	120	4	3	-	-	30	10	20	-	90	-	-	-	-	3
Total		600	20	4	1	1	180	60	120	-	420	-	150	-	-	18
Master's program «Technological management in pig breeding»																
1	Biology of pig	120	4	3	-	-	50	20	30	-	100	-	-	-	-	5
2	Management of pig nutrition and keeping	150	5	3	-	-	50	20	30	-	100	-	60	-	-	5
3	Pig slaughter and processing of pig products	150	5	-	3	-	30	10	20	-	90	-	90	-	-	3
4	Commercial technologies in pig breeding	180	6	3	-	3	50	20	30	-	130	-	-	-	-	5
Total		600	20	3	1	1	180	70	110	-	420	-	150	-	-	18
Master's program «Modern technologies of commercial poultry breeding»																
1	Technologies of the production of eggs and meat	210	7	3	-	3	50	20	30	-	160	-	90	-	-	5
2	Pedigree work	150	4	3	-	-	50	20	30	-	100	-	60	-	-	5
3	Incubation of poultry eggs	90	3	-	3	-	30	10	20	-	60	-	-	-	-	3
4	Biology of poultry	150	3	3	-	-	50	20	30	-	100	-	-	-	-	5
Total		600	20	3	1	1	180	70	110	-	420	-	150	-	-	18
Master's program «Technologies in rabbit and fur farming»																
1	Reproduction and breeding of fur animals and rabbits	150	5	-	3	-	30	10	20	-	60	-	60	-	-	3
2	Commercial technologies of the production of products of fur animals and rabbits	150	5	3	-	3	60	20	40	-	60	-	90	-	-	6
3	Biology of fur animals and rabbits	120	4	3	-	-	30	10	20	-	60	-	-	-	-	3
4	Processing of products of fur animals and products	90	3	-	3	-	30	10	20	-	180	-	-	-	-	3

1	2		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
5	Nutrition of fur animals and rabbits		90	3	3	-	-	30	10	20	-	60	-	-	-	-	3
Total		600	20	3	3	2	1	180	60	120	-	420	-	150	-	-	18
Master's program «Technologies in sheep and goat breeding»																	
1	Biology of a sheep and a goat	120	4	3	-	-	-	30	10	20	-	90	-	60	-	-	3
2	Systems of sheep and goat keeping	210	7	3	-	-	3	50	20	30	-	160	-	90	-	-	6
3	Pedigree work	150	5	3	-	-	-	40	20	20	-	110	-	-	-	-	4
4	Primary processing of sheep and goat products	120	4	-	-	3	-	60	20	40	-	180	-	-	-	-	5
Total		600	20	3	1	1	1	180	70	110	-	420	-	150	-	-	18
Total for elective part		2220	74	10	9	9	-	720	325	230	165	1500	-	240	18	18	18
State examination		30	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Master's thesis preparation and defense		210	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Practical training		240	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Course work							3										
Tests					9												
Exams				10													
Total for educational program		2700	90	10	10	9	3	720	325	230	165	1500	-	240	18	18	18

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standard academic disciplines	1290	43	47,8
2. Elective academic disciplines	930	31	34,4
2.1. Disciplines offered by University	330	11	-
2.2. Disciplines offered by students	600	20	-
3. Other forms of training	480	16	17,8
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Year	Theoretical training	Examination period	Practical training	Preparation of Master thesis	State examination	Vacation	Total
1	30	4	8	-	-	10	52
2	10	2	-	3	1	-	16
Total	40	6	8	3	1	10	68

V. PRACTICAL TRAINING

№	Type of training	Semester	Hours	Credits	Amount of weeks
1	Manufacturing training	I	240	8	8

VI. COURSE PAPER AND PROJECTS

№	Discipline	Hours	Credits	Course paper	Course projects
1	Technologies of the production and processing of animal products	30	1	-	II
2	Course project of Master program	30	1	-	III

VII. STATE CERTIFICATION

№	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	30	1	1
2	State examination	210	7	7

CURRICULUM of training specialists in 2017 academic year

Level of higher education	the second (Master)
Branch of knowledge	20 «Agrarian sciences and food»
Specialty	207 «Water bio resources and aqua culture»
Educational program	«Water bio resources and aqua culture»
Orientation of educational program	educational and professional
Master's programs	«Fauna of wetlands», «Bio expertise of aqua culture organic products», «Protection of hydro bio resources», «Commercial hydro bio resources», «Administration of quality of water environment», «Bioproductivity of continental waters», «Decorative hydro bio resources», «Sturgeon growing», «Pond fishing», «Salmon growing», «Commercial fishing»
Form of training	Full-time
Term of study (Credits)	1,5 years (90)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	Researcher of aqua culture

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work	Practical training		Distribution of hours per week within an acad. year and semesters				
		Hours	Credits	Semesters			Total	Including				practical training	manufacturing training					
				Exam	Test	Course paper (project)		Lectures	Laboratory classes	Seminars								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	15	16	17	18
1. STANDARD ACADEMIC DISCIPLINES																		
1	Work safety and civil protection in fishing	90	3	1	-	-	30	15	-	15	60	-	-	2	-	-	-	-
2	Communications in fishing farms	90	3	-	1	-	30	15	-	15	60	-	-	2	-	-	-	-
3	Methods of fishing researches	90	3	1	-	-	45	15	30	-	45	-	-	3	-	-	-	-
4	Ecological physiology and bio chemistry of hydro bionts	120	4	1	-	-	45	15	30	-	75	-	-	3	-	-	-	-
5	Intensive technologies in aqua culture	240	8	2	1	2	105	45	60	-	135	-	60	4	3	-	-	-
6	Theoretical fundamentals of fishing	150	5	2	-	-	60	30	-	30	90	-	-	-	4	-	-	-
7	Dynamics of fish populations	120	4	-	2	-	45	30	15	-	75	-	-	-	3	-	-	-
8	Information technologies in fishing	90	3	-	2	-	30	15	-	15	60	-	-	-	2	-	-	-
9	EEconomy of fishing industry	120	3	2	-	-	30	15	-	15	90	-	-	-	2	-	-	-
10	Manufacturing management in fishing	90	3	-	2	-	15	-	-	15	75	-	-	-	1	-	-	-
11	Philosophical issues of biology	90	3	-	1	-	15	15	-	-	75	-	-	-	1	-	-	-
Total		1290	43	6	6	1	450	210	135	105	840	-	60	14	16	-	-	-
Total for standard part		1290	43	6	6	1	450	210	135	105	840	-	60	14	16	-	-	-
2. ELECTIVE ACADEMIC DISCIPLINES																		
2.1. Disciplines offered by University																		
1	Methodology and organization of scientific researches with fundamentals of intellectual property	90	3	-	1	-	30	15	-	15	60	-	-	2	-	-	-	-
2	Business English	150	5	1	-	-	30	-	-	30	120	-	-	2	-	-	-	-
3	Agrarian policy	90	3	-	2	-	30	15	-	15	60	-	-	-	2	-	-	-
Total		330	11	1	2	-	90	30	-	60	240	-	-	4	2	-	-	-
2.2. Disciplines offered by students																		
Master's program «Fauna of wetlands»																		
1	Biology of the fauna of wetlands	150	5	3	-	-	60	30	30	-	90	-	90	-	-	-	6	-
2	Nutritional science and animal reproduction	150	5	3	-	-	40	20	20	-	110	-	60	-	-	-	4	-
3	Bio monitoring and the protection of the fauna of wetlands	120	4	3	-	-	30	10	20	-	90	-	-	-	-	-	3	-

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
4	Administration of resources of wetlands	180	6	-	3	3	50	20	30	-	130	-	-	-	-	5	-
Total		600	20	3	1	1	180	80	100	-	420	-	150	-	-	18	-
Master's program «Bio expertise of organic products of aqua culture»																	
1	Requirements to organic products of aquaculture and conditions of its production	120	4	3	-	-	30	10	20	-	90	-	60	-	-	3	-
2	Methods for determining the conformity of production conditions	90	3	-	3	-	30	10	20	-	60	-	-	-	-	3	-
3	Methods of quality control and safety of organic products	210	7	3	-	-	60	30	30	-	150	-	90	-	-	6	-
4	Management of quality and product safety	180	6	3	-	3	60	30	30	-	120	-	-	-	-	6	-
Total		600	20	3	1	1	180	80	100	-	420	-	150	-	-	18	-
Master's program «The protection of hydro bio resources»																	
1	Hydrobiocenology	120	4	3	-	-	40	20	20	-	80	-	-	-	-	4	-
2	Assessment of ecological state of waters	120	4	-	3	-	30	10	20	-	90	-	-	-	-	3	-
3	Protection of water resources	120	4	-	3	-	30	10	20	-	90	-	-	-	-	3	-
4	Protection of hydrobiotics	120	4	3	-	3	40	20	20	-	80	-	90	-	-	4	-
5	Administration of the use of hydrobiotics	120	4	3	-	-	40	20	20	-	80	-	60	-	-	4	-
Total		600	20	3	2	1	180	80	100	-	420	-	150	-	-	18	-
Master's program «Commercial hydrobiotics»																	
1	Commercial ichthyology	120	4	3	-	3	40	20	20	-	80	-	90	-	-	4	-
2	Prediction of fish catching	120	4	3	-	-	40	20	20	-	80	-	-	-	-	4	-
3	Fishing of continental waters of Ukraine	120	4	-	3	-	30	10	20	-	90	-	-	-	-	3	-
4	International control of fishing	120	4	-	3	-	30	10	20	-	90	-	-	-	-	3	-
5	Administration of fish productivity of waters	120	4	3	-	-	40	20	20	-	80	-	60	-	-	4	-
Total		600	20	3	2	1	180	80	100	-	420	-	150	-	-	18	-
Master's program «Administration of quality of water environment»																	
1	Quality of natural and artificial waters	120	4	3	-	-	40	20	20	-	80	-	60	-	-	4	-
2	Methods of assessing quality of water environment	120	4	-	3	-	30	10	20	-	90	-	-	-	-	3	-
3	Monitoring of waters	120	4	3	-	-	40	20	20	-	90	-	-	-	-	4	-
4	Protection of water environment	120	4	-	3	-	30	10	20	-	90	-	90	-	-	3	-
5	Restoration of ecological state of waters	120	4	3	-	3	40	20	20	-	80	-	-	-	-	4	-
Total		600	20	3	2	1	180	80	100	-	420	-	150	-	-	18	-
Master's program «Bio productivity of continental waters»																	
1	Hydrobiocenology	120	4	3	-	-	40	20	20	-	80	-	60	-	-	4	-
2	Bio productivity of water eco systems	120	4	3	-	3	40	20	20	-	80	-	-	-	-	4	-
3	Methods of assessing the bio productivity of waters	120	4	3	-	-	40	20	20	-	80	-	-	-	-	4	-
4	Modern methods of hydro and biological resources	120	4	-	3	-	30	10	20	-	90	-	-	-	-	3	-
5	Management of the productivity of waters	120	4	-	3	-	30	10	20	-	90	-	90	-	-	3	-
Total		600	20	3	2	1	180	80	100	-	420	-	150	-	-	18	-

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Master's program «Sturgeon growing»																	
1	Biology of the productivity of sturgeon	120	4	-	3	-	30	10	20	-	90	-	-	-	-	3	-
2	Technologies of sturgeon reproduction	150	5	3	-	-	30	10	20	-	120	-	60	-	-	3	-
3	Pond sturgeon growing	150	5	3	-	-	50	20	30	-	100	-	90	-	-	5	-
4	Commercial sturgeon growing	180	6	3	-	3	70	30	40	-	110	-	-	-	-	7	-
Total		600	20	3	1	1	180	70	110	-	420	-	150	-	-	18	-
Master's program «Salmon growing»																	
1	Biology of the productivity of salmon	120	4	-	3	-	30	10	20	-	90	-	-	-	-	3	-
2	Biological fundamentals of salmon reproduction	150	5	3	-	-	30	10	20	-	120	-	60	-	-	3	-
3	Pond salmon growing	150	5	3	-	-	50	20	30	-	100	-	90	-	-	5	-
4	Commercial salmon growing	180	6	3	-	3	70	30	40	-	110	-	-	-	-	7	-
Total		600	20	3	1	1	180	70	110	-	420	-	150	-	-	18	-
Master's program «Commercial fishing»																	
1	Productivity of commercial aquaculture	120	4	3	-	-	30	10	20	-	90	-	-	-	-	3	-
2	Commercial fish selection	150	5	-	3	-	50	20	30	-	100	-	90	-	-	5	-
3	Technical equipment of industrial fishing	150	5	3	-	-	40	20	20	-	110	-	60	-	-	4	-
4	Technologies of commercial fishing	180	6	3	-	3	60	20	40	-	120	-	-	-	-	5	-
Total		600	20	3	1	1	180	70	110	-	420	-	150	-	-	18	-
Master's program «Decorative hydro bio resources»																	
1	World decorative hydro bio resources	120	4	-	3	-	30	10	20	-	90	-	-	-	-	3	-
2	Technologies of cultivating decorative hydro bio resources	120	4	3	-	3	40	20	20	-	80	-	90	-	-	4	-
3	Health of decorative hydro bio resources	120	4	-	3	-	30	10	20	-	90	-	-	-	-	3	-
4	Technologies of constructing decorative aqua systems	120	4	3	-	-	40	20	20	-	80	-	60	-	-	4	-
5	Aqua design	120	4	3	-	-	40	20	20	-	80	-	-	-	-	4	-
Total		600	20	3	2	1	180	80	100	-	420	-	150	-	-	18	-
Master's program «Pond fishing»																	
1	Biology of the productivity of pond aqua culture	120	4	3	-	-	30	10	20	-	90	-	-	-	-	3	-
2	Selection of pond aqua culture	150	5	-	3	-	40	20	20	-	110	-	90	-	-	4	-
3	Technologies of pond fishing	150	5	3	-	-	60	20	40	-	90	-	60	-	-	6	-
4	Technologies of cultivating extra pond fishing	180	6	3	-	3	50	20	30	-	130	-	-	-	-	5	-
Total		600	20	3	1	1	180	70	110	-	420	-	150	-	-	18	-
Total for elective part		2220	74	10	9	2	720	320	235	165	1500	-	240	18	18	18	-
State examination																	
Master's thesis preparation and defense		30	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Practical training		210	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Course work		240	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tests		-	-	-	-	9	-	-	-	-	-	-	-	-	-	-	-
Exams		-	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-
Total for educational program		2700	90	10	9	2	720	320	235	165	1500	-	240	18	18	18	-

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standard academic disciplines	1290	43	47,8
2. Elective academic disciplines	930	31	34,4
2.1. Disciplines offered by University	330	11	-
2.2. Disciplines offered by students	600	20	-
3. Other forms of training	480	16	17,8
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Year	Theoretical training	Examination period	Practical training	Preparation of Master thesis	State examination	Vacation	Total
1	30	4	8	-	-	10	52
2	10	2	-	3	1	-	16
Total	40	6	8	3	1	10	68

V. PRACTICAL TRAINING

№	Type of training	Semester	Hours	Credits	Amount of weeks
1	Manufacturing training	I	240	8	8

VI. COURSE PAPER AND PROJECTS

№	Discipline	Hours	Credits	Course paper	Course projects
1	Intensive technologies in aquaculture	30	1	-	II
2	Course project of Master's program	30	1	-	III

VII. STATE CERTIFICATION

№	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	30	1	1
2	State examination	210	7	7

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE**

FACULTY OF VETERINARY MEDICINE

**CURRICULUM
of training specialists in 2017 academic year**

Level of higher education	the second (Master)
Branch of knowledge	21 «Veterinary medicine»
Specialty	211 «Veterinary medicine»
Educational program	«Veterinary medicine»
Orientation of educational program	educational and professional
Master's program	«Preventive veterinary technologies of Animal Health Providing»; «Veterinary welfare of cattle, sheep and goats»; «Veterinary welfare of dogs and cats»; «Providing of pig breeding»; «Veterinary pharmacy»; «Veterinary and sanitary examination of agricultural and food products»
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	Doctor of veterinary medicine

I. TRAINING PROCESS SCHEDULE

[illegible]

Legend:

-	theoretical training
-	examination session
-	vacation

X	- scientific-practical training
II	- preparation of master's work
//	- state certification (protection of master's thesis)

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work		Practical training		Distribution of hours per week within an acad. year and semesters		
		Hours	Credits	Semesters			Total	Including		Seminars	practical training	13	14	15	16	17	15
				Exam	Test	Course paper		Lectures	Laboratory classes								
				5	6	7	8	9	10	11							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	15
1. STANDARD ACADEMIC DISCIPLINES																	
1	Obstetrics, gynecology and animal reproduction biotechnology	90	3	x			30	15	15		60			2			
2	Special propaedeutics, therapy and prevention of internal diseases of animals	90	3	x			30	15	15		60			2			
3	Surgical diseases with anesthesiology	90	3		x		30	15	15		60			2			
4	Special epizootology	90	3	x			30	15	15		60			2			
5	Global parasitology	120	4		x		30	15	15		90			2			
6	State veterinary and sanitary expertise	120	4		x		30	15	15		90			2			
7	Comparative morphology, special pathomorphology and forensic veterinary medicine	120	4	x			45	15	30		75			3			
Total		720	24	4	3		225	105	120		495			15			
2. ELECTIVE ACADEMIC DISCIPLINES																	
2.1. Disciplines offered by University																	
1	Business foreign language	150	5		x		45			45	105			3			
2	Information technologies in veterinary medicine	90	3		x		45	15		30	45			3			
3	Methodology and organization of scientific research on the basics of intellectual property	90	3		x		45	15		30	45			3			
Total		330	11		3		135	30		105	195			9			
2.2. Disciplines offered by students																	
Master's program «Preventive veterinary technologies of Animal Health Providing»																	
1	Preventive technologies to ensure the health of productive animals	600	20	x	x		382	138	244		218				18		14
2	Preventive technologies to ensure the health of small animals	420	14		x		80	32	48		340						10

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
3	Preventive technologies to ensure the health of horses	180	6	x			90	30	60		90				6	
Total		1200	40	2	2		552	200	352		648				24	24
Master's program «Veterinary welfare of cattle, sheep and goats»																
1	Innovative technologies nutrition, genetics and breeding of cattle, sheep and goats	180	6		X		90	30	60		90				6	
2	Preventive veterinary technology non-communicable diseases of ruminants	540	18	x	X		292	108	184		248				12	14
3	Preventive veterinary technology communicable diseases of ruminants	480	16	x	X		170	62	108		310				6	10
Total		1200	40	2	3		552	200	352		648				24	24
Master's program «Veterinary welfare of dogs and cats»																
1	Innovative technologies nutrition, genetics and dogs and cats breeding	180	6	X			90	30	60		90				6	
2	Preventive veterinary technology non-communicable diseases of dogs and cats	540	18	X	X		292	108	184		248				12	14
3	Preventive veterinary technology contagious disease of dogs and cats	480	16	X	X		170	62	108		310				6	10
Total		1200	40	3	2		552	200	352		648				24	24
Master's program «Providing of pig breeding»																
1	Innovative technologies nutrition, genetics and breeding pig	180	6	X			90	30	60		90				6	
2	Preventive veterinary technology non-communicable diseases of pigs	540	18	X	x		292	108	184		248				12	14
3	Preventive Veterinary Technology contagious disease of pigs	480	16	X	X		170	62	108		310				6	10
Total		1200	40	3	2		552	200	352		648				24	24
Master's program «Veterinary pharmacy»																
1	Pharmacognosy, Pharmaceutical Chemistry and Toxicological Chemistry	300	10	X			195	60	135		105				13	
2	Pharmacy and pharmaceutical technology	300	10	X			165	60	105		135				11	
3	Clinical Veterinary Pharmacology and Clinical Veterinary Pharmacy	300	10	X			96	48	48		204					12
4	Preclinical and clinical studies of drugs	300	10	X			96	32	64		204					12
Total		1200	40	4			552	200	352		648				24	24
Master's program «Veterinary and sanitary examination of agricultural and food products»																
1	Hygiene of food products and feed	360	12	X			240	60	180		120				16	
2	Methods of veterinary and sanitary examination of food products and feed	180	6	X			120	60	60		60				8	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
3	Quality management of the laboratory	360	12	X			80	40	40		280					10
4	Analysis of microbiological risks in food products and feed	300	10	X			112	40	72		188					14
Total		1200	40	4			552	200	352		648				24	24
Total for elective part		1530	51				687	230	352		843					
3. OTHER FORMS OF TRAINING																
State examination																
Master's thesis preparation and defense		150	5													
Practical training		300	10													
Course work																
Tests					9											
Exams				8												
Total for educational program		2700	90	8	9		912	335	472	105	1338			24	24	24

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standart academic disciplines	720	24	27
2. Elective academic disciplines	1530	51	56
2.1. Disciplines offered by University	330	11	12
2.2. Disciplines offered by students	1200	40	44
3. Other forms of training	450	15	17
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	30	5	9		-	8	52
2	8	1	1		5	-	15
Total	38	6	10		5	8	67

V. PRACTICAL TRAINING

Nº	Type of practice	Semester	Hours	Credits	Amount of weeks
2	Practical training	2,3	300	10	10

VI. STATE CERTIFICATION

N	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	150	5	5
2	State examination			

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE**

FACULTY OF VETERINARY MEDICINE

**CURRICULUM
of training specialists in 2017 academic year**

Level of higher education	the second (Master)
Branch of knowledge	21 «Veterinary medicine»
Specialty	212 «Veterinary hygiene, sanitary and expertise»
Educational program	«Veterinary hygiene, sanitary and expertise»
Orientation of educational program	educational and professional
Master's program	«Safety and quality of food products and feed»
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	The doctor of veterinary medicine for the safety and quality of agricultural and food products

I. TRAINING PROCESS SCHEDULE
training specialists second (master's) level of higher education in 2017 entry
specialty 212 «Veterinary hygiene, sanitary and expertise»

[illegible]

Legend:

-	theoretical training
-	examination session
-	vacation

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)			Individual work	Practical training		Distribution of hours per week within an acad. year and semesters	
		Hours	Credits	Semesters		Total	Including		practical training		manufacturing practice			
				Exam	Test		Course paper	Lectures				Laboratory classes		Seminars
1. STANDARD ACADEMIC DISCIPLINES														
1	Hygiene of milk and dairy products	180	6	X			45	15	30			3		
2	Hygiene of primary processing of animals and slaughter products	150	5	X			45	15	30			3		
3	Hygiene of products of animal origin	150	5	X			45	15	30			3		
4	Hygiene of plant food products	120	4		X		45	15	30			3		
5	Hygiene of feed and feed additives	120	4		X		45	15	30			3		
Total		720	24	3	2		225	75	150			15		
2. ELECTIVE ACADEMIC DISCIPLINES														
2.1. Disciplines offered by University														
1	Business foreign language	150	5		x		45			45	105	3		
2	Information technologies in veterinary medicine	90	3		X		45	15		30	45	3		
3	Methodology and organization of scientific research on the basics of intellectual property	90	3		X		45	15		30	45	3		
Total		330	11		3		135	30		105	195	9		
2.2. Disciplines offered by students														
Master's program «Safety and quality of food products and feed»														
1	Methods of veterinary and sanitary examination	510	17	X			216	62	154		294	8	12	
2	State veterinary and sanitary supervision and control of food products and feed	510	17	X			216	62	154		294	8	12	
3	Analysis of food products and feed risks	180	6		X		120	60	60		60	8		
Total		1200	40	2	1		552	184	368		648	24	24	
Total for elective part		1530	51				687	214	368	105	843			
3. OTHER FORMS OF TRAINING														
State examination														
Master's thesis preparation and defense		150	5											
Practical training		300	10											
Tests					6									
Exams				5										
Total for educational program		2700	90	5	6		912	289	518	105	1338	24	24	

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standart academic disciplines	720	24	27
2. Elective academic disciplines	1530	51	56
2.1. Disciplines offered by University	330	11	12
2.2. Disciplines offered by students	1200	40	44
3. Other forms of training	450	15	17
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	30	5	9		–	8	52
2	8	1	1		5	-	15
Total	38	6	10		5	8	67

V. PRACTICAL TRAINING

Nº	Type of practice	Semester	Hours	Credits	Amount of weeks
2	Practical training	2,3	300	10	10

VI. STATE CERTIFICATION

N	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	150	5	5
2	State examination			

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE**

**FACULTY OF ALIMENTARY TECHNOLOGIES AND MANAGING OF QUALITY OF PRODUCTS OF
AGRICULTURAL COMPLEX**

**CURRICULUM
of training specialists in 2017 academic year**

Level of higher education	the second (Master)
Branch of knowledge	18 «Manufacturing and technologies»
Specialty	181 «Alimentary technologies»
Educational program	«Technologies of storage, preservation and reprocessing of meat»
Orientation of educational program	educational and professional
Master's program	«Technology of meat and meat products»
Form of training	full-time
Term of study (Credits)	1,5 year (90 credits)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	Master of sciences specialized in sphere of storage, preservation and reprocessing of meat

I. TRAINING PROCESS SCHEDULE

[illegible]

Legend:

-	theoretical training	X	-	scientific-practical training
-	examination session	II	-	preparation of master's work
-	vacation	//	-	state certification (protection of master's thesis)

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work			Practical training		Distribution of training hours spent in a week by courses		
		Hours	Credits	Examination	Test	Course paper	Total	including		12	13	14	15	16	17			
								Lectures	Exercise in laboratories									
				Seminars														
		1 year	2 year	semester														
		Number of weeks in semester		15		15		10										

1. STANDARD ACADEMIC DISCIPLINES																
1.	Modern methods of research used in the branch industry	120	4	2	2	-	-	45	15	30	-	75	-	-	3	-
2.	Protection of labor in the branch industry	180	6	1	1	-	-	45	15	30	-	135	-	-	3	-
3.	Actual problems of the branch industry	300	10	1	1	-	1	90	45	45	-	210	-	-	6	-
4.	Technology of preservation and storage of meat	300	10	2	2	-	2	90	45	45	-	210	-	-	-	6
5.	Biologically active substance made of raw materials of animal origin	120	4	3	3	-	3	40	20	20	-	80	-	-	-	4
6.	Exploitation of productive equipment	150	5	3	3	-	-	45	15	30	-	105	-	-	3	-
7.	The resource-saving technologies used in the food industry	120	4	-	3	3	-	40	20	20	-	80	-	-	-	4
Total		1290	43	6	1	3	3	395	175	220	-	895	-	-	9	12
2. ELECTIVE ACADEMIC DISCIPLINES																
2.1. Disciplines offered by University																
1.	Policy in agriculture	90	3		3	-	3	20	20	-	-	50	-	-	-	2
2.	Businesslike foreign language	150	5	1		-	-	30	-	-	30	120	-	-	2	-
3.	Philosophy of science and innovative progress	90	3	1		-	-	30	15	-	15	60	-	-	2	-
Total		330	11	2	2	-	-	80	35	-	45	230	-	-	4	2

2.2 Disciplines offered by students																
Master's program of "Technology of meat and meat products"																
1.	Optimization of processes of manufacturing	120	4	2	-	-	45	15	30	-	-	75	-	-	-	3
2.	Analysis of microstructure of meat and meat products	120	4		2	-	45	15	30	-	-	75	-	-	3	-
3.	International and regional standardization and certification	90	3		1	-	15	15	-	-	-	75	-	1	-	-
4.	Technology of forages for domestic animals	150	5	-	3	-	40	20	20	-	-	110	-	-	-	4
5.	Supply of energy at enterprises of the branch industry	90	3	-	3	-	40	20	20	-	-	50	-	-	-	4
6.	Economical aspects of entrepreneurship	90	3				60	30		30		30		4		
Total		660	22	1	4		245	115	100	30		415				8
In total		2280	76	9	7	3	750	340	320	90		1560		18	18	18
Practical training		180	6	-	-	-	-	-	-	-	-	-	-	180		
Preparation and protection of the master's diploma		240	8		-	-	-	-	-	-	-	-	-	-		240
Quantity of term papers (projects)				-	-	3	-	-	-	-	-	-	-	-	-	
Quantity of examinations				9	-	-	-	-	-	-	-	-	-	-	-	
Quantity of tests				-	7											
Total for educational program		2700	90	9	7	3	750	340	320	90		1560	-	180	-	240

III. STRUCTURE OF THE CURRICULUM

Training disciplines	Hours	Credits	%
1. Standart academic disciplines	1290	43	48,0
2. Elective academic disciplines	990	33	37,0
2.1. Disciplines offered by University	330	11	12,0
2.2. Disciplines offered by students	660	22	25,0
3. Other forms of training	420	14	15,0
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Year of training	Theoretical training	Examination session	Practical training	Preparation of the magister's diploma	State attestation	Vacations	Total
1	30	4	8			10	52
2	10	1		4	1		16
Total	40	5	8	4	1	10	68

V. PRACTICAL TRAINING

№	Form of practice	Semester	Hours	Credits	Quantity of weeks
1	Practical training	II	180	6	9

VI. TERM PAPERS AND PROJECTS

№	Appellation of the discipline	Hours	Credits	Term paper	Term project
1	Actual problems of the branch	30	1	-	1
2	Technology of preservation and storage of meat	30	1	-	1
3	Biologically active substances made of products of zoic origin	30	1	-	1

VII. STATE ATTESTATION

№	Constituent of attestation	Hours	Credits	Quantity of weeks
1	Preparation and defense of the master's diploma	240	8	5

3240 90 100

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
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**FACULTY OF ALIMENTARY TECHNOLOGIES AND MANAGING OF QUALITY OF PRODUCTS OF
AGRICULTURAL COMPLEX**

**CURRICULUM
of training specialists in 2017 academic year**

Level of higher education	the second (Master)
Branch of knowledge	18 «Manufacturing and technologies»
Specialty	181 «Alimentary technologies»
Training program	«Technologies of storage and reprocessing of aquatic biological resources»
Orientation of the training program	educational and professional
Master's program	«Technology of storage, preservation and reprocessing of fish and seafood»
Form of training	full-time
Term of study (Credits)	1,5 year (90 credits)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	Master of sciences specialized in sphere of storage and reprocessing of aquatic biological resources

training specialists second (master's) level of higher education in 2017 entry

[illegible]

-	theoretical training	X	-	scientific-practical training
-	examination session	II	-	preparation of master's work
-	vacation	//	-	state certification (protection of master's thesis)

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.))			Audience employments (hours)				Individual work			Practical training		Distribution of training hours spent in a week by courses		
		Hours	Credits	Examination	Test	Course paper	Total	including		Seminars	practical training	manufacturing practice	15	15	10	Number of weeks in semester		2 year
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1. STANDARD ACADEMIC DISCIPLINES																		
1.	Modern methods of research used in the branch industry	120	4	2	-	-	45	15	30	-	75	-	-	-	3	-	-	-
2.	Protection of labor in the branch industry	180	6	1	-	-	45	15	30	-	135	-	-	3	-	-	-	-
3.	Actual problems of functioning of the branch industry	300	10	1	-	1	90	45	45	-	210	-	-	6	-	-	-	-
4.	Modern technologies of storage and preservation of fish products	300	10	2	-	2	90	45	45	-	210	-	-	-	6	-	-	-
5.	Technology of albuminous products produced of fish and seafood	120	4	3	-	3	40	20	20	-	80	-	-	-	-	-	4	4
6.	Exploitation of productive equipment	150	5	2	-	-	45	15	30	-	105	-	-	-	3	-	-	-
7.	Resource saving technologies of food industry	120	4		3		40	20	20		80						4	4
Total		1290	43	6	1	3	395	175	220	-	895			9	12	8		
2. ELECTIVE ACADEMIC DISCIPLINES																		
2.1. Disciplines offered by University																		
1.	Policy in agriculture	90	3		3	-	20	20	-	-	70	-	-	-	-	-	2	2
2.	Businesslike foreign language	150	5	1		-	30		-	30	120	-	-	2	-	-	-	-
3.	Philosophy of science and innovative progress	90	3	1	-	-	30	15	-	15	60	-	-	2	-	-	-	-
Total		330	11	2	1	-	80	35	-	45	250			4	-	2		
2.2 Disciplines by choice of students																		
Master's program of "Technology of storage, preservation and reprocessing of fish and aquatic products"																		
1.	Analysis of microstructure of fish and seafood	120	4	-	2	-	45	15	30	-	75	-	-	-	3	-	-	-
2.	Optimization of processes of manufacturing	120	4	2	-	-	45	15	30	-	75	-	-	-	3	-	-	-
3.	Biologically active substances produced of fish and seafood	120	4	3	-	-	30	10	20	-	90	-	-	-	-	-	3	3

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
4.	Economical aspects of entrepreneurship	90	3		1	-	60	30		30	30	-	-	4	-	-
5.	International and regional standardization and certification	90	3	-	1	-	15	15	-	-	75	-	-	1	-	-
6.	Technology of producing of fish flour	150	5	-	3	-	50	20	30	-	100	-	-	-	-	5
Total		690	23	2	4	-	245	105	110	30	445			5	3	8
In total		2310	77	10	6	3	720	315	330	75	1590	-	-	18	18	18
Practical training		150	5	-	-	-	-	-	-	-	-	-	150			
Preparation and protection of the master's diploma		240	8		-	-	-	-	-	-	-	-	-			240
Quantity of term papers (projects)				-	-	3	-	-	-	-	-	-	-	-	-	
Quantity of examinations				10	-	-	-	-	-	-	-	-	-	-	-	
Quantity of tests				-	7											
Total for educational program		2700	90	10	7	3	720	315	330	75	1590	-	150	-	-	240

III. STRUCTURE OF PLAN OF TRAINING

Training disciplines	Hours	Credits	%
1. Standart academic disciplines	1290	43	48,0
2. Elective academic disciplines	1020	34	38,0
2.1. Disciplines offered by University	330	11	13,0
2.2. Disciplines offered by students	690	23	25,0
3. Other forms of training	390	13	14,0
Total for educational program	2700	90	100

IV. TOTALIZED DATA ON BUDGET OF TIME IN WEEKS

Year of training	Theoretical training	Examination session	Practical training	Preparation of the master's diploma	State attestation	Vacations	Total
1	30	4	8			10	52
2	10	1		4	1		16
Total	40	5	8	4	1	10	68

V. PRACTICAL TRAINING

Nº	Form of practice	Semester	Hours	Credits	Quantity of weeks
1	Practical training	II	150	5	8

VI. TERM PAPERS AND PROJECTS

N	Appellation of the discipline	Hours	Credits	Term paper	Term project
1	Actual problems of the branch	30	1	-	1
2	Modern technologies of storage and preservation of fish products	30	1	-	1
3	Technology of albuminous products produced of fish and seafood	30	1	-	1

VII. STATE ATTESTATION

N	Constituent of attestation	Hours	Credits	Quantity of weeks
1	Preparation and defense of the master's diploma	240	8	4

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
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**FACULTY OF ALIMENTARY TECHNOLOGIES AND MANAGING OF QUALITY OF PRODUCTS OF
AGRICULTURAL COMPLEX**

**CURRICULUM
of training specialists in 2017 academic year**

Level of higher education
Branch of knowledge
Specialty
Training program
Orientation of the training program
Master's program

Second (Master of Science)
1801 «Automation and instrument making»
152 «Metrology and informative and measuring technique»
«Quality, standardization and certification»
educational and professional
«Managing by quality and safety of foodstuffs»

Form of training
Term of study (Credits)
On the basis of
Educational degree
Qualification

full-time
1,5 year (90 credits)
the first level of higher education «Bachelor»
«Master»
Master of sciences in sphere of standardization, certification and
quality management

training specialists second (master's) level of higher education in 2017 entry by specialty of 152 "Metrology and information and measuring technique" of the educational program of "Quality, standardization and certification"

-	theoretical training	X	-	scientific-practical training
-	examination session	II	-	preparation of master's work
-	vacation	//	-	state certification (protection of master's thesis)

Legend:

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.))			Audience employments (hours)				Individual work		Practical courses		Distribution of training hours spent in a week by courses			
		Hours	Credits	by semesters		Total	including		12	13	14	15	16	17				
				Examination	Test		Course paper	Lectures							Exercise in laboratories	Seminars		
																	1 course	2 course
1	2	3	15	15	10	10	11	12	13	14	15	16	17					

1. STANDARD ACADEMIC DISCIPLINES																
1.	Industrial management	90	3	3	-	-	45	15	-	30	45					3
2	Research and innovative processes	120	4	2	-	-	30	15	-	15	90				2	
3	Systemic approach and methods of taking of decisions	120	4	3	-	-	40	20	-	20	80					4
4	International and regional standardization and certification	120	4	-	3	-	20	20	-	-	70	-	-	-		2
5	Quality management	180	6	1		1	60	30	-	30	120			4		
6	Legal metrology and standardization	120	4	1			45	15	-	30	75			3		
7	Audit and certification	120	4	1			45	15	-	30	75			3		
8	Managing by quality and safety of agricultural and alimentary production	300	10	2	1		120	60		60	180			4	4	
9	Standardization and certification of products of agriculture	180	6	2		2	60	30	-	30	120				4	
Total		1350	45	8	2	2	465	220		245	885			16	14	9
2. ELECTIVE ACADEMIC DISCIPLINES																
2.1. Disciplines offered by University																
1.	Businesslike foreign language	150	5	1	-	-	30	-	-	30	60			2		
2.	Policy in agriculture	90	3		3		20	20								2
3	Legal support of problems of management	90	3		2		45	15	-	30	45				3	
Total		330	11	1	2		95	34	-	60	105			2	3	2
2.2 Disciplines by choose of students																
Master's program of «Managing by quality and safety of foodstuffs»																
1.	Mathematical modeling of systems and processes	120	4		3		45	15	-	30	75					3

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
2.	Methods of assuring and managing by quality of foodstuffs	210	7	3		3	40	20		20	200					4
3.	Management by environmental conditions	120	4		2		30	15	-	15	90				2	
4.	Management by personnel	120	4		2		30	15	-	15	90				2	
5.	Psychology of management	90	3		1		30	15	-	15	60			2		
Total		660	22	1	4	1	175	80	-	95	515			2	4	7
Preparation and protection of the master's diploma		180	6													
Practical training		180	6													
Quantity of term papers						3										
Quantity of tests					8											
Quantity of examinations				10												
Total		2700	90	10	8	3	735	334	-	400	1605	-	180	18	18	18

III. STRUCTURE OF PLAN OF TRAINING

Training disciplines	Hours	Credits	%
1. Standart academic disciplines	1350	45	50,0
2. Elective academic disciplines	990	33	37,0
2.1. Disciplines offered by University	330	11	12,0
2.2. Disciplines offered by students	660	22	25,0
3. Other forms of training	360	12	13,0
Total for educational program	2700	90	100,0

IV. TOTALIZED DATA ON BUDGET OF TIME, WEEKS

Year of training	Theoretical training	Examination session	Practical training	Preparation of the magister's diploma	State attestation	Vacations	Total
1	30	4	9			8	51
2	10	1		5	1		17
Total	40	5	9	5	1	8	68

V. PRACTICAL TRAINING

Nº	Form of practice	Semester	Hours	Credits	Quantity of weeks
1	Practical training	I	180	6,0	9

VI. TERM PAPERS AND PROJECTS

Nº	Appellation of the discipline	Hours	Credits	Term paper	Term project
1	Standardization and certification of products of agriculture	15	0,5	1	
2	Quality management	15	0,5	1	
3	Quality, safety and hygiene of products of agriculture	15	0,5	1	

VII. STATE ATTESTATION

Nº	Constituent of attestation	Hours	Credits	Quantity of weeks
1	Protection of the master's diploma	180	6,0	5

CURRICULUM of training specialists in 2017 academic year

Level of higher education	the second (Master)
Branch of knowledge	133 «Industrial and Civil Construction»
Specialty	«Machinery and equipment for agricultural production»
Educational program	educational and professional
Orientation of the educational program	«Constructing, design, and testing machines for agricultural production»
Master's program	
Form of training	full-time
Term of study (Credits)	1,5 year (90 ECTS)
On the basis of	the first level of higher education (bachelor)
Educational degree	«Master»
Qualification	Researcher of Industrial and Civil Construction

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Disciplines	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work		Practical training		Distribution of hours per week within an acad. year and semesters			
		Hours	Credit	Exam	Test	Course paper	Total	Including			12	13	14	1 year		2 year		
								Lectures	Laboratory classes	Practical classes				1 sem.	2 sem.		3 sem.	
																		Number of weeks in semester
1	2	3	4	5	6	7	8	9	10	11	11	12	13	14	15	15	16	17
1. COMPULSORY ACADEMIC DISCIPLINES																		
1	Automatization of technical systems	90	3			1		30	15	15		60			2			
2	Applied computer technology	90	3			2		45	15	30		45				3		
3	Mechanics of constructions of technical systems	90	3	1				45	15	30		45			3			
4	Measuring instruments and measuring methods	90	3		2			30	15	15		60				2		
5	Reliability of technical systems	90	3		2			30	15	15		60				2		
6	Systems of automated designing	150	5		1	30	60	30	30	30		60				4		
7	Theory of calculation of agricultural technics	90	3	1			60	30	30	30		30			4			
8	Mechatronic systems of agricultural technics	90	3		2		30	15	15	15		60				2		
9	Test of agricultural technics	90	3	2			30	15	15	15		60				2		
10	Theory of technical systems	150	5		2	30	60	30	30	30		60				4		
Total		1020	34	4	6	60	420	195	225	0	540	0	0	0	9	19	0	0
2. ELECTIVE DISCIPLINES CHOSEN BY UNIVERSITY																		
1	Business Foreign Language	150	5		1		45	15	30		105				3			
2	Philosophy of science	90	3		1		30	15		15	60				2			
3	Basics of the scientific research	90	3		1		30	15		15	60				2			
Total		330	11	0	3	0	105	45	30	30	225	0	0	0	7	0	0	0
3. ELECTIVE DISCIPLINES CHOSEN BY STUDENTS																		
1	Designing machines for vibratory action	90	3	2			30	15	15		60					2		
2	Designing machines and equipment in animal husbandry	90	3	2			30	15	15		60					2		
3	Designing machines and equipment in bioenergy	90	3	2			30	15	15		60						2	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
4	Reliability of agricultural technics	120	4	1		30	45	15	30		45			3		
5	Mechanics of environments	90	3		2		30	15	15		60				2	
6	Methods of designing working organs of agricultural machines	90	3	1			60	30	30		30			4		
7	Mechatronics	120	4	2			60	30	30		60			4		
Total		690	23	6	1	30	285	135	150	0	375	0	0	11	8	0
TOTAL		2040	68	10	10	90	810	375	405	30	1140	0	0	27	27	0
Practical training		480	16									180	300			
Master's thesis preparation and defense		180	6													
Course work						3										
Tests					10											
Exams				10												
Total		2700	90	10	10	90	810	375	405	30	1140	180	300	27	27	0

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Compulsory academic disciplines	1020	34	40
2. Elective academic disciplines	1020	34	40
2.1. Disciplines chosen by University	330	11	15
2.2. Disciplines chosen by students	690	23	25
3. Other form of training	660	22	20
Total	2700	90	100

VII. STATE CERTIFICATION

№	Component attestation	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	150	5	5
2	State attestation	30	1	1

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of bachelor thesis	State Certification	Holidays	Total
1	30	5	6	-	-	11	52
2		1	10	5	1	-	17
Total	30	6	16	5	1	11	69

V. PRACTICAL TRAINING

№	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Design and engineering practice	1	120	4	4
2	Production practice	2	180	6	6
3	Production practice	3	300	10	10

VI. COURSE PAPER AND PROJECTS

№	Discipline	Hours	Credits	Course paper	Course projects
1	Reliability of agricultural techniques	30	1	-	1
2	Systems of automated designing	30	1	-	1
3	Dynamics of machines (dynamics of technical systems)	30	1	-	1

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE**

FACULTY OF CONSTRUCTION AND DESIGN

**CURRICULUM
of training specialists in 2017 academic year**

Level of higher education	the second (Master)
Area of knowledge	«Mechanical engineering and processing of materials»
Specialty	133 «Machinery and Equipment of Agricultural Production»
Educational program	«Machinery and equipment for agricultural production»
Orientation of the educational program	educational and professional
Master's program	«Mechatronic systems of machines of agricultural production»
Form of training	full-time
Term of study (Credits)	2,0 year (120 ECTS)
on the basis of	the first level of higher
Educational degree	«Master»
Qualification	Engineer-Designer

I. TRAINING PROCESS SCHEDULE

[illegible]

Legend:

8	-	theoretical training	X	-	scientific-practical training
:	-	examination session	A	-	intermediate attestation
-	-	vacation	3	-	Protection of research reports
O	-	educational practice	II	-	Preparation of master work
I	-	pedagogical (assistance) training	//	-	State certification(defense of master's thesis)
Д	-	Research practice (research (scientific component)			

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Disciplines	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work			Practical training		Distribution of hours per week within an acad. year and semesters																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
3. ELECTIVE DISCIPLINES CHOSEN BY STUDENTS																	
1	Designing machines and equipment in animal husbandry	90	3	2			30	15	15		60				2		
2	Designing machines for vibratory action	90	3	2			30	15	15		60				2		
3	Designing machines and equipment in bioenergy	90	3	2			30	15	15		60				2		
4	Reliability of agricultural technics	120	4	1		30	45	15	30		45			3			
5	Mechanics of environments	90	3		2		30	15	15		60				2		
6	Methods of designing working organs of agricultural machines	90	3	1			60	30	30		30			4			
7	Mechatronics	120	4	2			60	30	30		60			4			
8	The theory of mechatronic systems of agricultural machinery	90	3	4			20	10	10		70						2
9	Theoretical and experimental methods of modeling machine aggregates	90	3		4		20	10	10		70						2
10	Biomechanics	90	3		4		20	10	10		70						2
Total		960	32	8	3	30	345	165	180	0	585	0	0	11	8		6
TOTAL		2790	93	13	15	120	990	475	490	25	1680	0	0	27	27		18
Practical training		630	21									180	450				
Master's thesis preparation and defense		180	6														
Course work																	
Tests					15												
Exams				13													
Total		3600	120	13	15	120	990	475	490	25	1680	180	450	27	27	0	18

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Compulsory academic disciplines	1410	47	40
2. Elective academic disciplines	1380	46	40
2.1. Disciplines chosen by University	420	14	15
2.2. Disciplines chosen by students	960	32	25
3. Other form of training	810	22	20
Total for educational program	3600	120	100

VII. STATE CERTIFICATION

Nº	Component attestation	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	150	5	5
2	State attestation	30	1	1

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of bachelor thesis	State Certification	Holidays	Total
1	30	5	6	-	-	11	52
2	10	3	14	6	1	5	39
Total	40	8	20	6	1	16	91

V. PRACTICAL TRAINING

Nº	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Design and engineering practice	1	120	4	4
2	Production practice	2	180	6	6
3	Production practice	3	300	10	10

VI. COURSE PAPER AND PROJECTS

Nº	Discipline	Hours	Credits	Course paper	Course projects
1	Reliability of agricultural techniques	30	1	-	1
2	Systems of automated designing	30	1	-	1
3	Dynamics of machines (dynamics of technical systems)	30	1	-	1

CURRICULUM of training specialists in 2017 academic year

Level of higher education	the second (Master)
Area of knowledge	«Mechanical engineering and processing of materials»
Specialty	133 «Machinery and Equipment of Agricultural Production»
Educational program	«Equipment of the forest complex»
Orientation of the educational program	educational and professional
Master's program	«Mechatronic systems of Equipment of Forest Complex»
Form of training	full-time
Term of study (Credits)	1,5 year (90 ECTS)
on the basis of	the first level of higher
Educational degree	«Master»
Qualification	M.Sc. Mechanical Engineering

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Disciplines	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work		Practical training		Distribution of hours per week within an acad. year and semesters			
		Hours	Credit	Exam	Test	Course paper	Total	Including			Manufacturing practice	Practical training	1 Course			2 Course		
								Lectures	Laboratory classes	Practical classes			1 semester	2 semester	3 semester			
1. COMPULSORY ACADEMIC DISCIPLINES																		
1	Applied computer technology	90	3		2		45	15	30		45					3		
2	Measuring instruments and measuring methods	90	3		2		30	15	15		60					2		
3	Systems of automated designing	120	4		1	30	60	30	30		30					4		
4	Reliability of technical systems OJK	90	3		2		30	15	15		60					2		
5	The theory of calculating the equipment of the forestry	120	4	1			60	30	30		60			4				
6	Mechatronic systems of the equipment of the forestry	150	5		2		60	30	30		90					4		
7	Automatization of technical systems	90	3		1		30	15	15		60				2			
8	Reliability of the equipment of the forestry	120	4	1		30	45	15	30		45				3			
10	Dynamics of the equipment of the forestry	150	5		2	30	60	30	30		60					4		
Total		1020	34	2	6	90	420	195	225	0	510	0	0	9	19	0	0	
2. ELECTIVE DISCIPLINES CHOSEN BY UNIVERSITY																		
1	Business Foreign Language	150	5		1		45	15	30		105				3			
2	Philosophy of science	90	3		1		30	15		15	60				2			
3	Basics of the scientific research	90	3		1		30	15	15		60				2			
Total		330	11	0	3	0	105	45	45	15	225	0	0	7	0	0	0	
3. ELECTIVE DISCIPLINES CHOSEN BY STUDENTS																		
9	Mechanics of environments and timber products	90	3		2		30	15	15		60					2		
11	Design of technical systems of the forest complex	90	3	2			30	15	15		60					2		
1	Methods of designing the working bodies of the equipment of the forestry	120	4	1			60	30	30		60				4			
2	Theory and design of self-propelled forest machinery	120	4	2			60	30	30		60				4			
3	Test of the equipment of the forestry	90	3	2			30	15	15		60					2		

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
4	Designing of the equipment of the forestry of vibratory action	90	3		2		30	15	15		60				2	
5	Designing of woodworking equipment	90	3	1			45	15	30		45			3		
Total		690	23	5	2	0	285	135	150	0	405	0	0	11	8	0
Practical training		480	16									180	300			
Master's thesis preparation and defense		180	6													
Course work																
Tests						3										
Exams				12	12											
Total		2700	90	7	11	90	810	375	420	15	1140	180	300	27	27	0

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Compulsory academic disciplines	1020	34	40
2. Elective academic disciplines	1020	34	40
2.1. Disciplines chosen by University	330	11	15
2.2. Disciplines chosen by students	690	23	25
3. Other form of training	660	22	20
Total	2700	90	100

VII. STATE CERTIFICATION

Nº	Component attestation	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	150	5	5
2	State attestation	30	1	1

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of bachelor thesis	State Certification	Holidays	Total
1	30	5	6	-	-	11	52
2		-	10	5	1	-	16
Total	30	5	16	5	1	11	68

V. PRACTICAL TRAINING

Nº	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Design and engineering practice	1	120	4	4
2	Production practice	2	180	6	6
3	Production practice	3	300	10	10

VI. COURSE PAPER AND PROJECTS

Nº	Discipline	Hours	Credits	Course paper	Course projects
1	Reliability of agricultural techniques	30	1	-	1
2	Systems of automated designing	30	1	-	1
3	Dynamics of machines (dynamics of technical systems)	30	1	-	1

CURRICULUM of training specialists in 2017 academic year

Level of higher education	The second (Master)
Area of knowledge	19 «Building and Architecture»
Specialty	192 «Industrial and Civil Construction»
Educational program	«Industrial and Civil Construction»
Orientation of educational program	educational and professional
Master's program	
Form of training	full-time
Term of study (Credits) on the basis of	1,5 year (90 ECTS) the first level of higher education (bachelor)
Educational degree	«Master»
Qualification	Researcher of Industrial and Civil Construction

[illegible]

	-	theoretical training		-	scientific-practical training
:	-	examination session		-	intermediate attestation
-	-	vacation		-	preparation of master's work
O	-	educational practice		-	state certification (defense of master's thesis)
I	-	pedagogical (assistance) training			

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Disciplines	Total amount		Forms of knowledge control (for sem.)			Total amount					Individual work		Practical training		Distribution of hours per week within an acad. year and semesters			
		Hours	Credit	Exam	Test	Course paper	Total	Including			Manufacturing practice	Practical training	1 year			2 year			
								Lectures	Laboratory classes	Practical classes			1 semester	2 semester	3 semester				
3	4	5	6	7	8	9	10	11	12	13	14	15	15	16	17				
1. COMPULSORY ACADEMIC DISCIPLINES																			
1	Construction norms of Ukraine (OIF, MK, ZBK)	150	5		1		60	30	30		90			4					
2	Business Foreign Language	90	3		1		30			30	60			2					
3	Reconstruction of buildings and structures	90	3		2		30	15	15		60				2				
4	Basics of system analysis	120	4	1			60	30	30		60			4					
5	Theory and methodology of scientific research	120	4	1			60	30	30		60			4					
6	Mechatronic systems in construction	90	3		1		45	15	30		45			3					
1	Estimated and contractual documentation	120	4		2		60	30	30		60				4				
7	Engineering protection and preparation of territory (OIF, TBV)	90	3	1			45	15	30		45			3					
8	CAD in construction	150	5	2		30	60	30	30		60				4				
Total		1020	34	5	7	30	450	195	225	30	540	0	0	20	10		0		
2. ELECTIVE DISCIPLINES CHOSEN BY UNIVERSITY																			
1	Testing of building constructions (OIF)	120	4		1		30	15	15		90			2					
2	Testing of building constructions (ZBK)	90	3		2		30	15	15		60				2				
3	Testing of building constructions (MK)	120	4		2		30	15	15		90				2				
Total		330	11	0	5	0	90	45	45	0	240	0	0	2	4		0		
3. ELECTIVE DISCIPLINES CHOSEN BY STUDENTS																			
1	Innovative engineering and construction technologies in agricultural construction	120	4		2		30	15	15		90				2				
2	Development of effective building constructions (OIF, MK, ZBK)	90	3		2		45	15	30		45				3				
3	Design of buildings and structures for agricultural purposes (OIF, MK, ZBK)	180	6	2	1	30	90	30	60		60				3	3			
2	Legal support of construction	120	4		2		30	15		15	90				2				
2	Environmental safety of technological processes	90	3		1		30	15	15		60			2					
3	Labor protection in the industry	90	3	2			45	15	30		45				3				

1	2		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Total			690	23	6	6	30	270	105	150	15	390	0	0	5	13	0
TOTAL			2040	68	11	18	60	810	345	420	45	1170	0	0	27	27	0
Practical training			480	16									180	300			
Master's thesis preparation and defense			180	6													
Course work							2										
Tests						8											
Exams					10												
Total			2700	81	22	26	60	810	345	420	45	1170	0	0	27	27	0

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Compulsory academic disciplines	1020	34	40
2. Elective academic disciplines	1020	34	40
2.1. Disciplines chosen by University	330	11	15
2.2. Disciplines chosen by students	690	23	25
3. Other form of training	660	22	20
Total	2700	90	100

VII. ДЕРЖАВНА АТЕСТАЦІЯ

№	Component attestation	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	150	4	4
2	State attestation	30	1	1

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of bachelor thesis	State Certification	Holidays	Total
1	30	5	6	-	-	11	52
2	-	-	10	5	1	-	16
Total	30	5	16	5	1	11	68

V. PRACTICAL TRAINING

№	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Design and engineering practice	1	120	4	4
2	Production practice	2	180	6	6
3	Production practice	3	300	10	10

VI. COURSE PAPER AND PROJECTS

№		Discipline	Hours	Credits	Course paper
1	Mechatronic systems in construction	30	1	-	1
2	CAD in construction	30	1	-	1
3	Designing buildings at agrarian appointment	30	1	-	1

CURRICULUM of training specialists in 2017 academic year

Level of higher education	the second (Master)
Branch of knowledge	28 «Agrarian science and food»
Specialty	208 «Agroengineering»
Educational program	«Agroengineering»
Orientation of educational program	educational and professional
Master's program	«Optimization of processes, parameters and operating modes of the AIC», «Technologies and equipment of service enterprises», «Biotechnological processes in agrarian and industrial complex», «Labor protection principles of agroengineering», «Technology and technique in plant growing», «Technologies and equipment in animal husbandry»
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	Agroengineering Educator

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)				Audience employments (hours)				Individual work			Practical training		Practical training		Distribution of hours per week within an acad. year and semesters			
		Hours	Credits	Semesters		Course paper	Including			Seminars	12	13	14	15	16	17						
				Exam	Test		Lectures	Laboratory classes														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17						
1. STANDARD ACADEMIC DISCIPLINES																						
1	Legislation and law in the agro-industrial complex	120	4	1				30	15		15	90			2							
2	Mechatronic systems of AIC technology	180	6	1				60	30	30		120			4							
3	Innovative engineering technologies	150	5		2			30	15		15	120			2							
4	Logistics in mechanization	180	6	2				60	30	30		120				4						
5	Environmental safety of technological processes	90	3	3				30	15	15		60				2						
6	Economics of technological systems	120	4	3				45	15		30	75				3						
7	Precision farming system	120	4		3			45	15	30		75				3						
Total		960	32					300	135	105	60	660			8	12	0					
2. ELECTIVE ACADEMIC DISCIPLINES																						
2.1. Disciplines offered by University																						
1	Methodology and organization of research on the basics of intellectual property	90	3		1			45	15		30	45			3							
2	Agrarian policy	90	3		1			45	15		30	45			3							
3	Business Foreign Language	150	5	2				60			60	90			4							
Total		330	11					150	30	0	120	180			10							
2.2. Disciplines offered by students																						
Master's program «Technology and technique in plant growing»																						
1	Design and calculation of technological systems in crop production	180	6	1				90	45		45	90			6							
2	Design of technological processes in crop production	180	6	2				60	45		45	120				6						
3	Management of technological processes in crop production	150	5	2				60	45		45	90				6						
Total		510	17					210	135	0	135	300			6	12	0					

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Master's program «Technologies and equipment in animal husbandry»																
1	Design and calculation of technological systems in animal husbandry	180	6	1			90	45		45	90			6		
2	Design of technological processes in livestock breeding	180	6	2			60	45		45	120				6	
3	Management of technological processes in livestock breeding	150	5	2			60	45		45	90				6	
Total		510	17				210	135	0	135	300			6	12	0
Master's program «Optimization of processes, parameters and operating modes of the AIC»																
1	Designing modes of work of processes and equipment of agrarian and industrial complex	180	6	1			90	45		45	90			6		
2	Modeling of work processes and machines	180	6	2			60	45		45	120				6	
3	Tests of agricultural production technology	150	5	2			60	45		45	90				6	
Total		510	17				210	135	0	135	300			6	12	0
Master's program «Technologies and equipment of service enterprises»																
1	Design and calculation of service technological systems	180	6	1			90	45		45	90			6		
2	Design of technological processes of service of machines	180	6	2			60	45		45	120				6	
3	Management of enterprises of technical service	150	5	2			60	45		45	90				6	
Total		510	17				210	135	0	135	300			6	12	0
Master's program «Labor protection principles of agrobiotechnology»																
1	Organization of labor protection agrobiotechnology	180	6	1			90	45		45	90			6		
2	The theory of safety of agrobiotechnology	180	6	2			60	45		45	120				6	
3	Safety of production processes in agrobiotechnology	150	5	2			60	45		45	90				6	
Total		510	17				210	135	0	135	300			6	12	0
Master's program «Biotechnological processes in agrarian and industrial complex»																
1	Designing Biotechnological Processes	180	6	1			90	45		45	90			6		
2	Bioenergy systems in agrarian production	180	6	2			60	45		45	120				6	
3	Mechanization of biocomputing processes	150	5	2			60	45		45	90				6	
Total		510	17				210	135	0	135	300			6	12	0
Total for elective part		1800	60				720	300	105	315	1080			24	24	0
3. OTHER FORMS OF TRAINING																
State examination																
Master's thesis preparation and defense		270	9	3							270					
Practical training		630	21	2,3							630					
Total for educational program		2700	90				720	300	105	315	1980			24	24	0

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standart academic disciplines	960	32	36
2. Elective academic disciplines	840	28	31
2.1. Disciplines offered by University	330	11	12
2.2. Disciplines offered by students	510	17	19
3. Other forms of training	900	30	33
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	30	5	6	–	–	11	52
2	0	-	8	4	2	–	14
Total	31	5	14	4	2	11	66

V. PRACTICAL TRAINING

Nº	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Internship	2, 3	630	21	14

VI. STATE CERTIFICATION

N	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	270	9	8

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE**

MECHANICS AND TECHNOLOGY FACULTY

**CURRICULUM
of training specialists in 2017 academic year**

Level of higher education
Branch of knowledge
Specialty
Educational program
Orientation of educational program
Master's program

the second (Master)
28 «Agrarian science and food»
208 «Agroengineering»
«Agroengineering»
educational and scientific
«Biotechnological processes in agrarian and industrial complex»

Form of training
Term of study (Credits)
On the basis of
Educational degree
Qualification

full-time
2 year (120)
the first level of higher education «Bachelor»
«Master»
Agroengineering Educator

training specialists second (master's) level of higher education in 2017 entry specialty «Agroengineering» of educational program «Agroengineering»

Legend:

X	Д	И	//

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work			Practical training		Distribution of hours per week within an acad. year and semesters	
		Hours	Credits	Semesters			Total	Including			practical training	manufacturing practice	Number of weeks in semester				
				Exam	Test	Course paper		Lectures	Laboratory classes	Seminars							
3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
1. STANDARD ACADEMIC DISCIPLINES																	
1	Legislation and law in the agro-industrial complex	150	5	1			30	15		15	120			2			
2	Mechatronic systems of AIC technology	150	5		1		30	15	15		120			2			
3	Innovative engineering technologies	150	5		1		30	15		15	120			2			
4	Logistics in mechanization	180	6	2			60	30	30		120				4		
5	Environmental safety of technological processes	90	3	2			30	15	15		60				2		
6	Economics of technological systems	120	4	2			45	15	15	30	75				3		
7	Precision farming system	120	4		2		45	15	30		75				3		
8	Safety of production processes in agroengineering	120	4		1		30	15	15		90			2			
9	Industrial sanitation	60	2	3			30	15	15		30					2	
10	Reliability of technical systems	120	4		1		30	15	15		90			2			
11	Occupational Health in	90	3		2		30	15	15		60				2		
12	Management of enterprises of technical service	120	4		2		30	15	15		90				2		
13	Measuring instruments and measuring methods	120	4	3			60	30	30		60					4	
14	Testing of agricultural machinery	120	4		3		90	45		45	30					6	
Total		1710	57				570	270	195	105	1140			10	16	12	0
2. ELECTIVE ACADEMIC DISCIPLINES																	
2.1. Disciplines offered by University																	
1	Methodology and organization of research on the basics of intellectual property	90	3		1		45	15		30	45				3		
2	Agrarian policy	90	3		1		45	15		30	45				3		
3	Business Foreign Language	150	5	2			60			60	90				4		
Total		330	11				150	30	0	120	180			10			
2.2. Disciplines offered by students																	
1	Designing Biotechnological Processes	150	5	1				60	30		30	90			4		

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
2	Bioenergy systems in agrarian production	150	5	2				60	30		30	90			4		
3	Modeling of work processes and machines	120	4	3				90	45		45	30				6	
4	System machine - man - animal	120	4	3				90	45		45	30				6	
5	Mechanization of biocomputing processes	120	4	2				60	30		30	60			4		
Total		660	22					360	180	0	180	300		4	8	12	
Total for elective part		2700	90					1080	480	195	405	1620		24	24	24	0
3. OTHER FORMS OF TRAINING																	
State examination																	
Master's thesis preparation and defense		270	9	3							270						
Practical training		630	21	2, 3							630						
Course work																	
Tests																	
Exams																	
Total for educational program		3600	120				1080	480	195	405	2520			24	24	24	0

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standart academic disciplines	1710	57	48
2. Elective academic disciplines			
2.1. Disciplines offered by University	330	11	9
2.2. Disciplines offered by students	660	22	18
3. Other forms of training	900	30	25
Total for educational program	3600	120	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	30	5	6			11	52
2	15	2	13	6	1	5	42
Total	45	7	19	6	1	16	94

V. PRACTICAL TRAINING

№	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Internship	2, 3	630	21	19

VI. STATE CERTIFICATION

N	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	270	9	8

CURRICULUM of training specialists in 2017 academic year

Level of higher education	the second (Master)
Branch of knowledge	27 «Transport»
Specialty	274 «Automobile transport»
Educational program	«Automobile transport»
Orientation of educational program	educational and professional
Master's program	
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	Transport industry Educator

I. TRAINING PROCESS SCHEDULE
training specialists second (master's) level of higher education in 2017 entry
specialty «Automobile transport» of educational program «Automobile transport»

Year of study	2017 year												2018 year											
	September		October		November		December		January		February		March		April		May		June		July		August	
	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
I																								
Year of study	2018 year												2019 year											
	September		October		November		December		January		February		March		April		May		June		July		August	
	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
II																								

Legend:

-	theoretical training
-	examination session
-	vacation

X	-	scientific-practical training
II	-	preparation of master's work
//	-	state certification (defense of master's thesis)

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work		Practical training		Distribution of hours per week within an acad. year and semesters			
		Hours	Credits	Semesters			Total	Including			12	13	14	15	16	17	18	19
				Exam	Test	Course paper		Lectures	Laboratory classes	Seminars								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1. STANDARD ACADEMIC DISCIPLINES																		
1	Operational properties of cars	150	5	1			45	15	30		105			3				
2	Applied Computer Technologies in Automobile Transport	120	4		1		45	15	30		75			3				
3	Environmental safety of vehicles	90	3		1		30	15	15		60			2				
4	Organization and safety of motor transport	90	3	1			30	15	15		60			2				
5	Regulatory and legal support of activity of automobile enterprises	90	3		2		30	15		15	60				2			
6	Economy of motor transport	90	3		2		30	15		15	60				2			
7	Transport technologies in agrarian production	120	4	2			45	15	30		75				3			
8	Design and calculation of autoservice enterprises	90	3	2			45	15		30	45				3			
9	Modern methods of MOT and diagnostics of automobiles	120	4	2			45	15	30		75				3			
10	Management of motor transport enterprises	90	3		2		45	15		30	45				3			
Total		1050	35				390	150	150	90	660			10	16		0	
2. ELECTIVE ACADEMIC DISCIPLINES																		
2.1. Disciplines offered by University																		
1	Methodology and organization of research on the basics of intellectual property	90	3		1		45	15		30	45			3				
2	Agrarian policy	90	3		1		45	15		30	45			3				
3	Business Foreign Language	150	5	2			60			60	90			4				
Total		330	11				150	30	0	120	180			10				
2.2. Disciplines offered by students																		
1	Alternative fuels and renewable sources of energy	90	3				30	15	15		60			2				
2	The workings of the ICE	90	3		1		30	15	15		60			2				

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
3	Labor protection in the industry and civil protection	90	3		2		45	15	30		45				3	
4	Tests of cars and engines	90	3		2		45	15	30		45				3	
5	Scientific basis of technical operation of machines	90	3		2		30	15		15	60				2	
Total		450	15				180	75	90	15	270			4	8	0
3. OTHER FORMS OF TRAINING																
State examination																
Master's thesis preparation and defense		270	9	3							270					
Practical training		630	21	2, 3							630					
Course work																
Tests																
Exams																
Total for educational program		2700	90				720	255	240	225	1980			24	24	0

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standart academic disciplines	1050	35	39
2. Elective academic disciplines			
2.1. Disciplines offered by University	300	10	11
2.2. Disciplines offered by students	450	15	17
3. Other forms of training	900	30	33
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	30	5	6	–	–	11	52
2	0	-	8	4	2	–	14
Total	31	5	14	4	2	11	66

V. PRACTICAL TRAINING

№	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Internship	2, 3	630	21	14

VI. STATE CERTIFICATION

N	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	270	9	8

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE**

MECHANICS AND TECHNOLOGY FACULTY

**CURRICULUM
of training specialists in 2017 academic year**

Level of higher education	the second (Master)
Branch of knowledge	27 «Transport»
Specialty	275 «Transport technologies (automobile transport)»
Educational program	«Transport technologies (automobile transport)»
Orientation of educational program	educational and professional
Master's program	
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	Transport industry Educator

training specialists second (master's) level of higher education in 2017 entry

specialty «Transport technologies (automobile transport)» of educational program «Transport technologies (automobile transport)»

[illegible]

	-	theoretical training
:	-	examination session
-	-	vacation

X	- scientific-practical training
II	- preparation of master's work
//	- state certification (defense of master's thesis)

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work		Practical training		Distribution of hours per week within an acad. year and semesters		
		Hours	Credits	Semesters			Total	Including			12	13	14	15	16	17	18
				Exam	Test	Course paper		Lectures	Laboratory classes	Seminars							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1. STANDARD ACADEMIC DISCIPLINES																	
1	Roads of internal economic purpose	90	3	1			30	15	15		60			2			
2	Cargoes agro-industrial complex	90	3		1		30	15	15		60			2			
3	Navigation systems on the vehicle	120	4	1			45	15	30		75			3			
4	Sanitation and hygiene of vehicles	120	4		1		45	15	30		75			3			
5	Occupational Health in	90	3	2			30	15	15		60				2		
6	Quality management of equipment	120	4	2			45	15	30		75				3		
7	Tests and certification of vehicles	120	4		2		45	15	30		75				3		
8	Economy of transport and traffic	150	5	2			60	30		30	90				4		
Total		900	30				330	145	165	30	570			10	12	0	
2. ELECTIVE ACADEMIC DISCIPLINES																	
2.1. Disciplines offered by University																	
1	Methodology and organization of research on the basics of intellectual property	90	3		1		45	15		30	45			3			
2	Agrarian policy	90	3		1		45	15		30	45			3			
3	Business Foreign Language	150	5	2			60			60	90			4			
Total		330	11				150	30	0	120	180			10			
2.2. Disciplines offered by students																	
Master's program «Organization and regulation of traffic»																	
1	Special methods of organization of traffic	90	3		1		30	15	15		60			2			
2	Transport planning of large and significant cities	120	4		2		60	30	30		60				4		
3	Control and examination of vehicles	120	4	2			60	30	30		60				4		
4	Traffic control systems	120	4		2		60	30	30		60				4		
5	Transport planning of rural settlements	120	4	1	2		60	30	30		60			4			
Total		570	19				270	135	135		300			6	12	0	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Master's program «Organization of transport and management in transport»																
1	Transportation of perishable goods	90	3		2		30	15	15		60				2	
2	Freight forwarding activity	120	4		2		45	15	30		75				3	
3	Recycling of motor vehicles	120	4	1			60	30	30		60			4		
4	Supply Chain Management	150	5	2			60	30		30	90				4	
5	Technical service of motor vehicles	90	3		2		45	15	30		45				3	
Total		570	19				240	105	105	30	330			4	12	0
Total for elective part		900	33				510	240	240	30	630			14	24	0
3. OTHER FORMS OF TRAINING																
State examination																
Master's thesis preparation and defense		270	9	3							270					
Practical training		630	21	2, 3							630					
Course work																
Tests																
Exams																
Total for educational program		2700	90				750	310	360	90	1050			24	24	0

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standart academic disciplines	900	30	33
2. Elective academic disciplines	900	30	33
2.1. Disciplines offered by University	330	11	12
2.2. Disciplines offered by students	570	19	21
3. Other forms of training	900	30	33
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	30	5	6	–	–	11	52
2	0	-	8	6	2	–	16
Total	30	5	14	6	2	11	68

V. PRACTICAL TRAINING

Nº	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Internship	2, 3	630	21	14

VI. STATE CERTIFICATION

N	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	270	9	8

CURRICULUM **of training specialists in 2017 academic year**

Level of higher education	the second (Master)
Branch of knowledge	14 «Electrical engineering»
Specialty	141 «Electroenergetics, electrotechnics and electromechanics»
Educational program	«Electrotechnical systems of power consumption»
Orientation of educational program	educational and professional
Master's program	«Electrical Networks and Systems»
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	Master-electrician

training specialists second (master's) level of higher education in 2017 entry specialty «Electroenergetics, electrotechnics and electromechanics» of educational program «Electrotechnical systems of power consumption»

-	theoretical training	X	-	scientific-practical training
-	examination session	II	-	preparation of master's work
-	vacation	//	-	state certification (defense of master's thesis)

Legend:

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work			Practical training		Distribution of hours per week within an acad. year and semesters			
		Hours	Credits	Exam	Test	Course paper	Total	Including			practical training	manufacturing practice	1 year		2 year				
								Lectures	Laboratory classes	Seminars			1	2	3				
																Number of weeks in semester			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17			
1. STANDARD ACADEMIC DISCIPLINES																			
1	Electromagnetic Compatibility	120	4	1			36	24	12		84			3					
2	Energy Security	90	3		1		36	12		24	54			3					
3	Mathematical Modeling of Electrotechnical Systems and Their Components	120	4	1			48	24	24		72				4				
4	Basics of Energy Saving	120	4	1			36	24	12		84			3					
5	Safety in Electrical Installations	120	4		2		33	11	22		87				3				
6	Energy Monitoring and Analytical Research Methods for Electric Modes	120	4	2		15	33	11	22		87				3				
7	Energy Management and Energy Audit	90	3	2			33	11	22		57				3				
8	Methods of Synthesis and Analysis of ACS	90	3		2		33	11	22		57				3				
9	Optimization Theory	90	3	2			33	11		22	57				3				
10	Information Technology	90	3		2		33	11	22		57				3				
11	Relay Protection and Automation of Distribution Power Networks	120	4	3			30	10	20		90						3		
Total		1170	39				384	160	178	46	786	0	0	0	13	18	3		
2. ELECTIVE ACADEMIC DISCIPLINES																			
2.1. Disciplines offered by University																			
1	Agricultural Policy	90	3		1		24	12		12	66			2					
2	Business Foreign Language	120	4	1			48			48	72			4					
3	Methodology and Organization of Scientific Research on the Basics of Intellectual Property	90	3		1		36	12		24	54			3					
4	Philosophy of Science and Innovation Development	90	3	1			24	12		12	66			2					
Total		390	13				132	36	0	96	258	0	0	0	11	0	0		
2.2. Disciplines offered by students																			
1	Energy Supply of Industry	90	3	2		15	33	11	22		57					3			

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
2	Energy Saving Methods in Power Systems	90	3		2		33	11	22		57				3	
3	Automated Control Systems of Power Consumption	90	3	3			30	10	20		60					3
4	Renewable Sources of Electric Energy Generation	90	3	3		15	30	10	20		60					3
5	Design of Power Consumption Systems	120	4	3		15	30	10	20		90					3
6	Telemechanics and ACS of Power Supply Systems	90	3		3		30	10	20		60					3
7	Technology of Maintenance and Repair of Electrical Plants of Power Systems	90	3		3		30	10	20		60					3
Total		660	22				216	72	144	0	444	0	0	0	6	15
Total for elective part																
3. OTHER FORMS OF TRAINING																
Practical training		300	10									150	150			
Master's thesis preparation and defense		180	6													
Course work (project)				x	x	3								1	1	1
Tests					9									3	4	2
Exams				13										5	4	4
Total for educational program		2700	90				732	268	322	142	1488	150	150	24	24	18

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standart academic disciplines	1170	39	43
2. Elective academic disciplines	1050	35	38
2.1. Disciplines offered by University	390	13	14
2.2. Disciplines offered by students	660	22	24
3. Other forms of training	480	16	18
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	21	4	16	–	–	11	52
2	10	2	–	3	1	–	16
Total	31	6	16	3	1	11	68

V. PRACTICAL TRAINING

Nº	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Operational Training at the enterprise	1	150	5	8
2	Practical Training of Master's Thesis	2	150	5	8

VI. COURSE PAPER AND PROJECTS

Nº	Discipline	Hours	Credits	Course paper	Course projects
1	Energy Supply of Industry; Energy Monitoring and Analytical Research Methods for Electric Modes	30	1		KP
2	Renewable Sources of Electric Energy Generation	15	1	KP	
3	Design of Power Consumption Systems	15	1	KP	

VII. STATE CERTIFICATION

N	Attestations	Hours	Credits	Amount of weeks
1	Writing and Defense of Master's Thesis	180	6	5

CURRICULUM **of training specialists in 2017 academic year**

Level of higher education	the second (Master)
Branch of knowledge	14 «Electrical engineering»
Specialty	141 «Electroenergetics, electrotechnics and electromechanics»
Educational program	«Electrotechnical systems of power consumption»
Orientation of educational program	Educational and Scientific
Master's program	«Electrical stations, networks and systems»
Form of training	full-time
Term of study (Credits)	2 years (120)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	Master-electrician

I. TRAINING PROCESS SCHEDULE
training specialists second (master's) level of higher education in 2017 entry
specialty «Electroenergetics, electrotechnics and electromechanics»
of educational program « Electrical stations, networks and systems»

Year of study	2017 year												2018 year												2019 year																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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Legend

X	- Scientific-practical training
3	- Defence of Scientific training report
II	- State certification (state examination and diploma defence)
//	- State certification (state examination and diploma defence)

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Disciplines	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work		Practical training		Distribution of hours per week within an acad. year and semesters			
		Hours	Credit	Exam	Test	Course paper	Total	Including		Seminars	Laboratory classes	Lectures	practical training	manufacturing practice	Number of weeks in semester			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
1. STANDARD ACADEMIC DISCIPLINES																		
1	Electromagnetic Compatibility	120	4	1			36	24	12						3			
2	Energy Security	90	3		1		36	12		24					3			
3	Mathematical Modeling of Electrotechnical Systems and Their Components	120	4	1			48	24	24						4			
4	Basics of Energy Saving	120	4	1			36	24	12						3			
5	Safety in Electrical Installations	120	4		2		33	11	22						3			
6	Energy Monitoring and Analytical Research Methods for Electric Modes	120	4	2		15	33	11	22						3			
7	Energy Management and Energy Audit	90	3	2			33	11	22						3			
8	Methods of Synthesis and Analysis of ACS	90	3	2	2		33	11	22						3			
9	Optimization Theory	90	3	2			33	11		22					3			
10	Information Technology	90	3		2		33	11	22						3			
11	Relay Protection and Automation of Distribution Power Networks	120	4	3			30	10	20						3			
12	Mathematical and Simulation Modeling of Processes in Electrical Networks and Systems	240	8	4			50	20	20	10							5	
13	Estimation of Electrical Systems Modes	180	6		4		40	20	20								4	
Total		1590	53				474	200	218	56	1116	0	0	0	13	18	3	9
2. ELECTIVE ACADEMIC DISCIPLINES																		
2.1. Disciplines offered by University																		
1	Agricultural Policy	90	3		1		24	12		12					2			
2	Business Foreign Language	120	4	1			48			48					4			
3	Methodology and Organization of Scientific Research on the Basics of Intellectual Property	90	3		1		36	12		24					3			
4	Philosophy of Science and Innovation Development	90	3	1			24	12		12					2			
Total		390	13				132	36	0	96	258	0	0	0	11	0	0	0

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
2.2. Disciplines offered by students																	
1	Energy Supply of Industry	90	3	2		15	33	11	22		57				3		
2	Energy Saving Methods in Power Systems	90	3		2		33	11	22		57				3		
3	Automated Control Systems of Power Consumption	90	3	3			30	10	20		60					3	
4	Renewable Sources of Electric Energy Generation	90	3	3		15	30	10	20		60					3	
5	Design of Power Consumption Systems	120	4	3		15	30	10	20		90					3	
6	Telemechanics and ACS of Power Supply Systems	90	3		3		30	10	20		60					3	
7	Technology of Maintenance and Repair of Electrical Plants of Power Systems	90	3		3		30	10	20		60					3	
8	Electromechanical Transients in Electrical Systems	240	8	4			50	20	20	10	190						5
9	Algorithmization of Electric Power Problems	240	8	4			40	20	20		200						4
Total		1140	38				306	112	184	10	834	0	0	0	6	15	9
3. OTHER FORMS OF TRAINING																	
Practical training																	
		300	10									150	150				
Master's thesis preparation and defense																	
		180	6														
Course work																	
				x	x	3								1	1	1	0
Tests																	
					10									3	4	2	1
Exams																	
				16										5	4	4	3
Total for educational program																	
		3600	120				912	348	402	162	2208	150	150	24	24	18	18

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standart academic disciplines	1593	53	44
2. Elective academic disciplines	1530	51	43
2.1. Disciplines offered by University	390	13	11
2.2. Disciplines offered by students	1140	38	32
3. Other forms of training	480	16	13
Total for educational program	3600	120	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	21	4	16	–	–	11	52
2	20	4	6	3	1	6	40
Total	41	8	22	3	1	17	92

V. PRACTICAL TRAINING

№	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Operational Training at the enterprise	1	210	7	16
2	Practical Training of Master's Thesis	1	90	3	6

VI. COURSE PAPER AND PROJECTS

№	Discipline	Hours	Credits	Course paper	Course projects
1	Energy Supply of Industry; Energy Monitoring and Analytical Research Methods for Electric Modes	30	1		KP
2	Renewable Sources of Electric Energy Generation	15	1	KP	
3	Design of Power Consumption Systems	15	1	KP	

VII. STATE CERTIFICATION

N	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	180	6	5

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE**

EDUCATION AND RESEARCH INSTITUTE OF ENERGETICS, AUTOMATICS AND ENERGY SAVING

CURRICULUM of training specialists in 2017 academic year

Level of higher education	the second (Master)
Branch of knowledge	14 «Electrical engineering»
Specialty	141 «Electroenergetics, electrotechnics and electromechanics»
Educational program	«Energetics of Agricultural Production»
Orientation of educational program	Educational and Professional
Master's program	«Automation of Technological Processes and Computer-integrated Control Systems of Information and Technological Resources in Agriculture»; «Electrical Networks and Systems»; «Energy supply in Agriculture»; «Energy Engineering in Agriculture»
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	Engineer-electrician

I. TRAINING PROCESS SCHEDULE

-	theoretical training	X
-	examination session	II
-	vacation	//

	theoretical training	examination session	vacation
-			
-			
-			

X	- scientific-practical training
II	- preparation of master's work
//	- state certification (defense of master's thesis)

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Disciplines	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work		Practical training		Distribution of hours per week within an acad. year and semesters		
		Hours	Credits	Exam	Test	Course paper	Total	Including			practical training	manufacturing practice	Number of weeks in semester			1 year	2 year
								Lectures	Laboratory classes	Seminars			12	11	10		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
1. STANDARD ACADEMIC DISCIPLINES																	
1	Electromagnetic Compatibility	120	4	1			36	24	12					3			
2	Energy Security	90	3		1		36	12		24				3			
3	Mathematical Modeling of Electrotechnical Systems and Their Components	120	4	1			48	24	24					4			
4	Basics of Energy Saving	120	4	1			36	24	12					3			
5	Safety in Electrical Installations	90	3	2			33	11	22							3	
6	Energy Supply for Agro industrial Complex	120	4	2			33	11	22							3	
7	Methods of Synthesis and Analysis of ACS	90	3		2		33	11	22							3	
8	Design of Electrification, Automation and Energy Supply Systems	90	3	2		15	33	11		22						3	
9	Optimization Theory	90	3	2			33	11		22						3	
10	Information Technology	90	3		2		33	11	22							3	
11	Heat and Water Supply in AIC	90	3		2		33	11	22							3	
Total		1110	37				387	161	158	68	723	0	0	13	21	0	
2. ELECTIVE ACADEMIC DISCIPLINES																	
2.1. Disciplines offered by University																	
1	Agricultural Policy	90	3		1		24	12		12				2			
2	Business Foreign Language	120	4	1			48			48				4			
3	Methodology and Organization of Scientific Research on the Basics of Intellectual Property	90	3		1		36	12		24				3			
4	Philosophy of Science and Innovation Development	90	3	1			24	12		12				2			
Total		390	13				132	36	0	96	258	0	0	11	0	0	
2.2. Disciplines offered by students																	
Master program "Automation of Technological Processes and Computer-integrated Control Systems of Information and Technological Resources in Agriculture"																	
1	Technology of Maintenance and Repair of Electrical Equipment and Means of Automation	120	4		2	15	33	11	22							3	
2	Automated Systems in Energetics	120	4		2		30	10	20								3

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
3	Engineering Activities of Automation Systems Maintenance	120	4		3		30	10	20		90					3
4	Methods of Modern Process and Production Control in Energetics	120	4	3		15	40	20	20		80					4
5	Software and Hardware of Control Systems in Energetics	120	4	3		15	40	20	20		80					4
6	Typical Technological Processes in Energetics and Methods of Modeling	120	4	3			40	20	20		80					4
Total		720	24				213	91	122	0	507	0	0	0	3	18
Master program "Electrical networks and systems"																
1	Technology of Maintenance and Repair of Electrical Equipment and Means of Automation	120	4		2	15	33	11	22		87				3	
2	Electrical Networks and Systems	120	4	3			30	10	20		90					3
3	Automated Control Systems of Power Consumption	90	3	3			30	10	20		90					3
4	Automatics and Telemechanics of Power Supply Systems	90	3	3		15	30	10	20		60					3
5	Electric Installations and Power Supply Systems	90	3		3		30	10	20		90					3
6	Small Electric Stations	90	3		3		30	10	20		60					3
7	Design of Power Consumption Systems	120	4	3		15	30	10	20		105					3
Total		720	24				213	71	142	0	582	0	0	0	3	18
Master program "Energy Supply in Agriculture"																
1	Technology of Maintenance and Repair of Electrical Equipment and Means of Automation	120	4		2	15	33	11	22		87				3	
2	Heat and Energy Installations and Systems	120	4	3			30	10	20		90					3
3	Gas Supply	90	3		3		30	10	20		60					3
4	Energy Saving in Heating Technologies	120	4	3			30	10	20		120					3
5	Energy Saving and Using of Renewable Energy Resources	90	3		3		30	10	20		90					3
6	Account and Regulation of Energy Distribution and Costs	90	3	3		15	30	10	20		75					3
7	Heating Technologies of Production and Processing of Agricultural Product	90	3	3		15	30	10	20		60					3
Total		720	24				213	71	142	0	582	0	0	0	3	18
Master program "Energy Engineering in Agriculture"																
1	Technology of Maintenance and Repair of Electrical Equipment and Means of Automation	120	4		2	15	33	11	22		87				3	
2	Energy Management and Audit in Agriculture	120	4	3			30	10	20		90					3
3	Accounting and Regulation of Energy Resources Costs	90	3	3			30	10	20		90					3
4	Software of Physical Researches	90	3	3		15	30	10	20		60					3
5	Technical Service of Power Equipment	90	3		3		30	10	20		90					3
6	Energy Engineering Technologies	120	4		3	15	30	10	20		90					3
7	Technology of Maintenance and Repair of Electrical Equipment and Means of Automation	90	3	3			30	10	20		90					3
Total		720	24				213	71	142	0	597	0	0	0	3	18

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
		3. OTHER FORMS OF TRAINING														
Practical training		300	10									150	150			
Master's thesis preparation and defense		180	6													
Course work (project)				x	x	3								0	1	2
Tests					9									3	4	2
Exams				13										5	4	4
Total for educational program		2700	90				732	268	300	164	1578	150	150	24	24	18

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standart academic disciplines	1170	39	43
2. Elective academic disciplines	1050	35	38
2.1. Disciplines offered by University	390	13	14
2.2. Disciplines offered by students	660	22	24
3. Other forms of training	480	16	18
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	21	4	16	–	–	11	52
2	10	2	–	3	1	–	16
Total	31	6	16	3	1	11	68

V. PRACTICAL TRAINING

№	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Training of electrical equipment operation at the enterprise	1	150	5	8
2	Training on Master's Thesis	1	150	5	8

VI. COURSE PAPER AND PROJECTS

№	Discipline	Hours	Credits	Course paper	Course projects
1	Design of Electrification, Automation and Energy Supply Systems; Technologies of Service and Repair of Power Equipment and Means of Automation	30	1		KP
2	Discipline depends on Master program	15	0,5	KP	
3	Discipline depends on Master program	15	0,5	KP	

VII. STATE CERTIFICATION

N	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	180	6	5

CURRICULUM of training specialists in 2017 academic year

Level of higher education	the second (Master)
Branch of knowledge	14 «Electrical engineering»
Specialty	141 «Electroenergetics, electrotechnics and electromechanics»
Educational program	«Energetics of Agricultural Production»
Orientation of educational program	educational and scientific program
Master's program	«Electrical networks and systems», «Energy Supply in Agriculture», «Scientific and Technical Principles of Electromechanical Energy Conversion», «Energy Efficient Control Systems of Biotechnical Objects»
Form of training	full-time
Term of study (Credits)	2 years (120)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	Engineer-electrician

I. TRAINING PROCESS SCHEDULE

[illegible]

Legend

-	Theoretical training
-	Examination session
-	vacation
-	Scientific training (9 component)
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II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Disciplines	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work	Practical training		practical training	manufacturing practice	Distribution of hours per week within an acad. year and semesters			
		Hours	Credit	Exam	Test	Course paper	Total	Including				12	13			1 year			
								Lectures	Laboratory classes	Seminars						1	2	3	4
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
1. STANDARD ACADEMIC DISCIPLINES																			
1	Electromagnetic Compatibility	120	4	1			36	24	12		84			3					
2	Energy Security	90	3		1		36	12		24	54			3					
3	Mathematical Modeling of Electrotechnical Systems and Their Components	120	4	1			48	24	24		72			4					
4	Basics of Energy Saving	120	4	1			36	24	12		84			3					
5	Safety in Electrical Installations	90	3	2			33	11	22		57				3				
6	Energy Supply for Agro industrial Complex	120	4	2			33	11	22		87				3				
7	Methods of Synthesis and Analysis of ACS	90	3		2		33	11	22		57				3				
8	Design of Electrification, Automation and Energy Supply Systems	90	3	2		15	33	11		22	57				3				
9	Optimization Theory	90	3	2			33	11		22	57				3				
10	Information Technology	90	3		2		33	11	22		57				3				
11	Heat and Water Supply in AIC	90	3	2	2		33	11	22		57				3				
Total		1110	37				387	161	158	68	723	0	0	13	21	0	0	0	0
2. ELECTIVE ACADEMIC DISCIPLINES																			
2.1. Disciplines offered by University																			
1	Agricultural Policy	90	3		1		24	12		12	66			2					
2	Business Foreign Language	120	4	1			48			48	72			4					
3	Methodology and Organization of Scientific Research on the Basics of Intellectual Property	90	3		1		36	12		24	54			3					
4	Philosophy of Science and Innovation Development	90	3	1			24	12		12	66			2					
Total		390	13				132	36	0	96	258	0	0	11	0	0	0	0	0
2.2. Disciplines offered by students																			
Master program «Energy Efficient Control Systems of Biotechnical Objects»																			
1	Technology of Maintenance and Repair of Electrical Equipment and Means of Automation	120	4		2	15	33	11	22		87				3				

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
2	Engineering Activities of Automation Systems Maintenance	120	4		2		30	10	20		90					3	
3	Methods of Modern Process and Production Control in Energetics	120	4		3		30	10	20		90					3	
4	Software and Hardware of Control Systems in Energetics	120	4	3		15	40	20	20		80					4	
5	Typical Technological Processes in Energetics and Methods of Modeling	120	4	3		15	40	20	20		80					4	
6	Biotechnological Automation Objects, Methods of Its Research and Modeling	120	4	3			40	20	20		80					4	
7	Information Technology of Control Systems	240	8	4			50	20	20	10	190						5
8	Computer Integrated Control Systems in Agriculture	180	6	4			40	20	20		140						4
9	Modern Methods of Design Automation Systems of Biotechnological Objects	240	8	4			40	20	20		200						4
10	Technology of Maintenance and Repair of Electrical Equipment and Means of Automation	240	8	4			50	20	20	10	190						5
Total		1620	54				393	171	202	20	1227	0	0	0	3	18	18

Master program "Electrical networks and systems"

1	Technology of Maintenance and Repair of Electrical Equipment and Means of Automation	120	4		2	15	33	11	22		87				3		
2	Electrical Networks and Systems	120	4	3			30	10	20		90					3	
3	Automated Control Systems of Power Consumption	90	3	3			30	10	20		90					3	
4	Automatics and Telemechanics of Power Supply Systems	90	3	3		15	30	10	20		60					3	
5	Electric Installations and Power Supply Systems	90	3		3		30	10	20		90					3	
6	Small Electric Stations	90	3		3		30	10	20		60					3	
7	Design of Power Consumption Systems	120	4	3		15	30	10	20		105					3	
8	Intelligent Systems of Electroenergy	180	6		4		40	20	20		180						4
9	Mathematical Tasks in Optimization Problems of Power Supply	240	8	4			50	20	20	10	230						5
10	Transients in Power Supply Systems	240	8	4			50	20	20	10	230						5
11	Modes Control of Electrical Networks	240	8	4			40	20	20		240						4
Total		1620	54				393	151	222	20	1462	0	0	0	3	18	18

Master program "Energy Supply in Agriculture"

1	Technology of Maintenance and Repair of Electrical Equipment and Means of Automation	120	4		2	15	33	11	22		87				3		
2	Heat and Energy Installations and Systems	120	4	3			30	10	20		90					3	
3	Gas Supply	90	3		3		30	10	20		60					3	
4	Energy Saving in Heating Technologies	120	4	3			30	10	20		120					3	
5	Account and Regulation of Energy Distribution and Costs	90	3		3		30	10	20		90					3	
6	Heating Technologies of Production and Processing of Agricultural Product	90	3	3		15	30	10	20		75					3	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
7	Integrated Use of Alternative and Renewable Energy Sources	90	3	3		15	30	10	20		60					3	
8	Modelling of Thermal and Hydrodynamic Processes	180	6		4		40	20	20		140						4
9	Nanotechnology of Heat and Mass Transfer Intensification	240	8	4			50	20	20	10	190						5
10	Optimization of Energy Supply Systems and Energy Efficiency	240	8	4			40	20	20		200						4
11	Technology of Maintenance and Repair of Electrical Equipment and Means of Automation	240	8	4			50	20	20	10	190						5
Total		1620	54				393	151	222	20	1302	0	0	0	3	18	18

Master program “Scientific and Technical Principles of Electromechanical Energy Conversion”

1	Technology of Maintenance and Repair of Electrical Equipment and Means of Automation	120	4		2	15	33	11	22		87				3		
2	Energy Management and Audit in Agriculture	120	4	3			30	10	20		90					3	
3	Reliability of Technical Systems, Technogenic Risks	90	3	3			30	10	20		90					3	
4	Accounting and Regulation of Energy Resources Costs	90	3	3		15	30	10	20		60					3	
5	Software of Physical Researches	90	3		3		30	10	20		90					3	
6	Technical Service of Power Equipment	120	4		3	15	30	10	20		90					3	
7	Energy Engineering Technologies	90	3	3			30	10	20		90					3	
8	Mathematical Modeling of Electromagnetic Devices and Electromechanical Power Converters	240	8	4			50	20	20	10	230						5
9	Reliability of Electromagnetic Devices and Electromechanical Power Converters	180	6		4		40	20	20		180						4
10	Special Sections of Theoretical Electrical Engineering	240	8	4			50	20	20	10	230						5
11	Modern Theory of Electromechanical Energy Conversion	240	8	4			40	20	20		240						4
Total		1620	54				393	151	222	20	1477	0	0	0	3	18	18

3. OTHER FORMS OF TRAINING

Practical training	300	10										150	150				
Master's thesis preparation and defense	180	6															
Course work (project)						3								0	1	2	0
Tests					10									3	4	2	1
Exams				16										5	4	4	3
Total for educational program	3600	120					912	348	380	184	2458	150	150	24	24	18	18

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standart academic disciplines	1110	37	31
2. Elective academic disciplines	2010	62	67
2.1. Disciplines offered by University	390	13	11
2.2. Disciplines offered by students	1620	54	45
3. Other forms of training	480	16	13
Total for educational program	3600	120	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	21	4	16	–	–	11	52
2	20	4	6	3	1	6	40
Total	41	8	22	3	1	17	92

V. PRACTICAL TRAINING

Nº	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Training of electrical equipment operation at the enterprise	1	210	7	16
2	Training on Master's Thesis	1	90	3	6

VI. COURSE PAPER AND PROJECTS

Nº	Discipline	Hours	Credits	Course paper	Course projects
1	Design of Electrification, Automation and Energy Supply Systems; Technologies of Service and Repair of Power Equipment and Means of Automation	30	1		KP
2	Discipline depends on Master program	15	0,5	KP	
3	Discipline depends on Master program	15	0,5	KP	

VII. STATE CERTIFICATION

N	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	180	6	5

CURRICULUM of training specialists in 2017 academic year

Level of higher education	the second (Master)
Branch of knowledge	14 «Electrical engineering»
Specialty	141 «Electroenergetics, electrotechnics and electromechanics»
Educational program	«Electrification and Automation of Agriculture»
Orientation of educational program	educational and professional
Master's program	«Automation of Technological Processes and Computer-integrated Control Systems of Information and Technological Resources in Agriculture», «Electrified Technologies and Electrical Equipment in Agricultural Production»
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	Engineer-electrician

I. TRAINING PROCESS SCHEDULE

[illegible]

Legend:

-	theoretical training	X	-	scientific-practical training
-	examination session	II	-	preparation of master's work
-	vacation	//	-	state certification (defense of master's thesis)

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Disciplines	Total amount		Forms of knowledge control (for sem.)	Audience employments (hours)				Individual work			Practical training		Distribution of hours per week within an acad. year and semesters			
		Hours	Credits	Exam	Test	Course paper	Total	Including			practical training	manufacturing practice	1 year			2 year	3
								Lectures	Laboratory classes	Seminars			1	2	Number of weeks in semester		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
1. STANDARD ACADEMIC DISCIPLINES																	
1	Electromagnetic Compatibility	120	4	1			36	24	12		84			3			
2	Energy Security	90	3		1		36	12		24	54			3			
3	Mathematical Modeling of Electrotechnical Systems and Their Components	120	4	1			48	24	24		72			4			
4	Basics of Energy Saving	120	4	1			36	24	12		84			3			
5	Safety in Electrical Installations	120	4	2			33	11	22		87				3		
6	Electric Drive of Agricultural Machines, Aggregates and Production Lines	120	4	2			33	11	22		87				3		
7	Design of Electrification, Automation and Energy Supply Systems in Agriculture	120	4	2		15	33	11		22	87				3		
8	Methods of Synthesis and Analysis of ACS	150	5		2		33	11	22		117				3		
9	Optimization Theory	90	3	2			33	11		22	57				3		
10	Information Technology	90	3		2		33	11	22		57				3		
Total		1140	38				354	150	136	68	786	0	0	13	18	0	
2. ELECTIVE ACADEMIC DISCIPLINES																	
2.1. Disciplines offered by University																	
1	Agricultural Policy	90	3		1		24	12		12	66			2			
2	Business Foreign Language	120	4	1			48			48	72			4			
3	Methodology and Organization of Scientific Research on the Basics of Intellectual Property	120	4		1		36	12		24	84			3			
4	Philosophy of Science and Innovation Development	90	3	1			24	12		12	66			2			
Total		420	14				132	36	0	96	288	0	0	11	0	0	
2.2. Disciplines offered by students																	
Master program "Automation of Technological Processes and Computer-integrated Control Systems of Information and Technological Resources in Agriculture"																	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Automation of Technological Processes and Productions	90	3		2		33	11	22		57				3	
2	Electrical Technologies in Agriculture	90	3		2	15	33	11	22		57				3	
3	Engineering Activities of Automation Systems Maintenance	120	4	3			40	20	20		80					4
4	Methods of Modern Process and Production Control in Electrification	120	4	3		15	50	20	30		70					5
5	Software and Hardware of Control Systems in Electrification	120	4		3	15	40	20	20		80					4
6	Typical Technological Processes in Electrification and Methods of Modeling	120	4	3			50	20	30		70					5
Total		660	22				246	102	144	0	414	0	0	0	6	18
Master program "Electrified Technologies and Electrical Equipment in Agricultural Production"																
1	Automation of Technological Processes and Productions	90	3		2		33	11	22		57				3	
2	Electrical Technologies in Agriculture	90	3		2	15	33	11	22		57				3	
3	Electrical Technologies in Agricultural Products Proceeding	120	4	3		15	40	20	20		80					4
4	Electron-ion Technologies	90	3		3		30	10	20		60					3
5	Engineering Activities of Electro Energy Systems Maintenance	90	3	3			30	10	20		60					3
6	Modeling of Adjustable Electric Drives, Aggregates and Production Lines	90	3	3		15	40	20	20		50					4
7	Optical Electrotechnologies	90	3	3			40	20	20		50					4
Total		660	22				246	102	144	0	414	0	0	0	6	18
3. OTHER FORMS OF TRAINING																
Practical training		300	10									150	150			
Master's thesis preparation and defense		180	6													
Course work (project)				x	x	3								0	1	2
Tests					8									3	4	1
Exams				13										5	4	4
Total for educational program		2700	90				732	288	280	164	1488	150	150	24	24	18

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standart academic disciplines	1140	38	42
2. Elective academic disciplines	1080	36	40
2.1. Disciplines offered by University	420	14	16
2.2. Disciplines offered by students	660	22	24
3. Other forms of training	480	16	18
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	21	4	16	–	–	11	52
2	10	2	–	3	1	–	16
Total	31	6	16	3	1	11	68

V. PRACTICAL TRAINING

№	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Training of electrical equipment operation at the enterprise	1	150	5	8
2	Training on Master's Thesis	1	150	5	8

VI. COURSE PAPER AND PROJECTS

№	Discipline	Hours	Credits	Course paper	Course projects
1	«Design of Electrification, Automation and Energy Supply Systems», «Electrical Technologies in Agriculture»	30	1		KP
2	Discipline depends on Master program	15	1	KP	
3	Discipline depends on Master program	15	1	KP	

VII. STATE CERTIFICATION

N	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	180	6	5

CURRICULUM **of training specialists in 2017 academic year**

Level of higher education	the second (Master)
Branch of knowledge	14 «Electrical engineering»
Specialty	141 «Electroenergetics, electrotechnics and electromechanics»
Educational program	«Electrification and Automation of Agriculture»
Orientation of educational program	educational and scientific program
Master's program	«Electrified Technologies and Electrical Equipment in Agricultural Production», «Energy Efficient Control Systems of Biotechnical Objects»
Form of training	full-time
Term of study (Credits)	2 years (120)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	Engineer-electrician

training specialists second (master's) level of higher education in 2017 entry specialty «Electroenergetics, electrotechnics and electromechanics» of educational program «Electrification and Automation of Agriculture»

Legend

-	Theoretical training	X
-	Examination session	3
-	vacation	II
-	Scientific training (Scientific component)	//

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Disciplines	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work			Practical training		Distribution of hours per week within an acad. year and semesters			
		Hours	Credits	Exam	Test	Course paper	Total	Including			practical training	manufacturing practice	1 year			2 year			
								Lectures	Laboratory classes	Seminars			1	2	3	4			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
1. STANDARD ACADEMIC DISCIPLINES																			
1	Electromagnetic Compatibility	120	4	1			36	24	12			84			3				
2	Energy Security	90	3		1		36	12			24	54			3				
3	Mathematical Modeling of Electrotechnical Systems and Their Components	120	4	1			48	24	24			72			4				
4	Basics of Energy Saving	120	4	1			36	24	12			84			3				
5	Safety in Electrical Installations	120	4	2			33	11	22			87				3			
6	Energy Supply for Agro industrial Complex	120	4	2			33	11	22			87				3			
7	Methods of Synthesis and Analysis of ACS	120	4	2		15	33	11		22	22	87				3			
8	Design of Electrification, Automation and Energy Supply Systems	150	5		2		33	11	22			117				3			
9	Optimization Theory	90	3	2			33	11		22	22	57				3			
10	Information Technology	90	3		2		33	11	22			57				3			
Total		1140	38				354	150	136	68	786	0	0	13	18	0	0	0	
2. ELECTIVE ACADEMIC DISCIPLINES																			
2.1. Disciplines offered by University																			
1	Agricultural Policy	90	3		1		24	12		12	66			2					
2	Business Foreign Language	120	4	1			48			48	72			4					
3	Methodology and Organization of Scientific Research on the Basics of Intellectual Property	120	4		1		36	12		24	84			3					
4	Philosophy of Science and Innovation Development	90	3	1			24	12		12	66			2					
Total		420	14				132	36	0	96	288	0	0	11	0	0	0	0	
2.2. Disciplines offered by students																			
Master program "Energy Efficient Control Systems of Biotechnical Objects"																			
1	Automation of Technological Processes and Productions	90	3		2		33	11	22		57					3			
2	Electrical Technologies in Agriculture	90	3		2	15	33	11	22		57					3			
3	Engineering Activities of Automation Systems Maintenance	120	4	3			40	20	20		80						4		

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
4	Methods of Modern Process and Production Control in Electrification	120	4	3		15	50	20	30		70					5	
5	Software and Hardware of Control Systems in Electrification	120	4		3	15	40	20	20		80					4	
6	Typical Technological Processes in Electrification and Methods of Modeling	120	4	3			50	20	30		70					5	
7	Biotechnological Automation Objects, Methods of Its Research and Modeling	240	8	4			50	20	20	10	190						5
8	Information Technology of Control Systems	180	6	4	4		40	20	20		140						4
9	Computer Integrated Control Systems in Agriculture	240	8	4			40	20	20		200						4
10	Modern Methods of Design Automation Systems of Biotechnological Objects	240	8	4			50	20	20	10	190						5
Total		1560	52	21	11	45	426	182	224	20	1134	0	0	0	6	18	18
Master program "Electrified Technologies and Electrical Equipment in Agricultural Production"																	
1	Automation of Technological Processes and Productions	90	3		2		33	11	22		57					3	
2	Electrical Technologies in Agriculture	90	3		2	15	33	11	22		57					3	
3	Electrical Technologies in Agricultural Products Proceeding	120	4	3		15	40	20	20		80					4	
4	Electron-ion Technologies	90	3	3	3		30	10	20		60					3	
5	Engineering Activities of Electro Energy Systems Maintenance	90	3	3			30	10	20		60					3	
6	Modeling of Adjustable Electric Drives, Aggregates and Production Lines	90	3	3		15	40	20	20		50					4	
7	Optical Electrotechnologies	90	3	3			40	20	20		50					4	
8	Electromagnetic Processing of Agricultural Products	240	8	4			50	20	20	10	190						5
9	Electro-technological Methods of Research	180	6	4	4		40	20	20		140						4
10	Scientific and Technical Bases of Electrotechnological Installations Design	240	8	4			40	20	20		200						4
11	Proceeding of Agricultural Product in the Field of Corona Discharge	240	8	4			50	20	20	10	190						5
Total		1560	52	24	11	45	426	182	224	20	1134	0	0	0	6	18	18
3. OTHER FORMS OF TRAINING																	
Practical training		300	10									150	150				
Master's thesis preparation and defense		180	6														
Course work (project)				x	x	3								0	1	2	0
Tests					9									3	3	2	1
Exams				16										5	4	4	3
Total for educational program		3600	120				912	368	360	184	2208	150	150	24	24	18	18

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standart academic disciplines	1140	38	32
2. Elective academic disciplines	1980	66	55
2.1. Disciplines offered by University	420	14	12
2.2. Disciplines offered by students	1560	52	43
3. Other forms of training	480	16	13
Total for educational program	3600	120	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	21	4	16	–	–	11	52
2	20	4	6	3	1	6	40
Total	41	8	22	3	1	17	92

V. PRACTICAL TRAINING

№	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Training of electrical equipment operation at the enterprise	1	210	7	16
2	Training on Master's Thesis	1	90	3	6

VI. COURSE PAPER AND PROJECTS

№	Discipline	Hours	Credits	Course paper	Course projects
1	«Design of Electrification, Automation and Energy Supply Systems», «Electrical Technologies in Agriculture»	30	1		KP
2	Discipline depends on Master program	15	1	KP	
3	Discipline depends on Master program	15	1	KP	

VII. STATE CERTIFICATION

N	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	180	6	5

CURRICULUM **of training specialists in 2017 academic year**

Level of higher education	the second (Master)
Branch of knowledge	15 « Automation and Instrumentation »
Specialty	151 «Automation and computer integrated technologies»
Educational program	«Automated control of technological processes»
Orientation of educational program	educational and professional
Master's program	«Computer-Integrated Process Control Systems of Livestock Production», «Computer-Integrated Process Control Systems of Crop Production»
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	research engineer of computer systems and automatics

I. TRAINING PROCESS SCHEDULE

[illegible]

Legend:

	-	theoretical training
:	-	examination session
-	-	vacation

X	- scientific-practical training
II	- preparation of master's work
//	- state certification (defense of master's thesis)

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Disciplines	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work			Practical training		Practical training practice	Distribution of hours per week within an acad. year and semesters		
		Hours	Credits	Exam	Test	Course paper	Total	Including			practical training	13	14	Number of weeks in semester					
								Lectures	Laboratory classes	Seminars				12	11	10	1 year	2 year	3
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17			
1. STANDARD ACADEMIC DISCIPLINES																			
1	Philosophy of Science and Innovation	90	3	1			36	12		24	54			3					
2	Civil Protection	90	3		1		24	12		12	66			2					
3	Automated Accounting of Energy and Material Resources	120	4		2		36	12	24		84					3			
4	Computer-Simulation Control Systems in Agriculture	150	5		2		44	11	22	11	106					4			
5	Technological Processes Automation	150	5	2		15	44	11	22	11	106					4			
6	ACS of Technological Processes in Agriculture	120	4	2			33	11	22		87					3			
7	CAD of Automation Systems in Agriculture	150	5	2		15	33	11	22		117					3			
8	Installation, Commissioning and Maintenance of Automation Systems	120	4	2		15	33	11	22		87					3			
9	Special Sections of High Mathematics	90	3	1			48	24		24	42			4					
10	Safety in the Area	90	3	1			36	12	24		54			3					
Total		1170	39				367	127	158	82	803	0	0	12	20	0			
2. ELECTIVE ACADEMIC DISCIPLINES																			
2.1. Disciplines offered by University																			
1	Agricultural Policy	90	3		1		36	12		24	54			3					
2	Methodology and Organization of Scientific Research on the Basics of Intellectual Property	90	3		3		20	10		10	70							2	
3	Business Foreign Language	150	5	1			36			36	114			3					
Total		330	11				92	22	0	70	238	0	0	6	0	2			
2.2. Disciplines offered by students																			
1	Calculations of Economic Efficiency of Scientific Developments	90	3		3		20	10		10	70							2	
2	Neuro Information Control Networks of Biotechnical Objects	120	4	3			40	20	20		80							4	
3	Robotic Complex and Systems in Agriculture	90	3		3		30	10	20		60							3	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
4	Modeling and Identification of Biotechnical Objects in Agriculture	150	5		1	15	66	22	44		84			6		
5	Object-Oriented Programming	90	3		2		44	22	22		46				4	
Master's program "Computer-Integrated Process Control Systems of Livestock Production"																
6	Methods and Tools of Modern Automated Control of Technological Processes and Productions in Livestock	90	3	3		15	40	20	20		50					4
7	Features Computer Integrated Control Systems in Livestock	90	3	3			30	10	20		60					3
Master's program "Computer-Integrated Process Control Systems of Crop Production"																
6	Methods and Tools of Modern Automated Control of Technological Processes and Productions in Crop	90	3	3		15	40	20	20		50					4
7	Features Computer Integrated Control Systems in Crop Production	90	3	3			30	10	20		60					3
Total		720	24				270	114	146	10	450	0	0	6	4	16
3. OTHER FORMS OF TRAINING																
Practical training		300	10									180	180			
Master's thesis preparation and defense		180	6								480					
Course work (project)				x	x	3								1	1	1
Tests					9									4	4	3
Exams				12										3	3	3
Total for educational program		2700	90				729	263	304	162	1971	180	180	24	24	18

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standart academic disciplines	1170	39	43
2. Elective academic disciplines	1050	35	39
2.1. Disciplines offered by University	330	11	12
2.2. Disciplines offered by students	720	240	27
3. Other forms of training	480	16	18
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	21	4	16	–	–	11	52
2	10	2	–	3	1	–	16
Total	31	6	16	3	1	11	68

V. PRACTICAL TRAINING

№	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Operational Training of Computer Systems	1	150	5	8
2	Research Training of Master's Thesis	1	150	5	8

VI. COURSE PAPER AND PROJECTS

№	Discipline	Hours	Credits	Course paper	Course projects
1	Modeling and Identification of Biotechnical Objects in Agriculture	30	05	KP	
2	Complex course project in disciplines «Technological Processes Automation», «CAD of Automation Systems in Agriculture» and «Installation, Commissioning and Maintenance of Automation Systems»	30	1		KP
3	Complex course project in disciplines «Methods and Tools of Modern Automated Control of Technological Processes» and «Computer-Simulation Control Systems in Agriculture»	30	1		KP

VII. STATE CERTIFICATION

N	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	180	6	5

CURRICULUM **of training specialists in 2017 academic year**

Level of higher education	the second (Master)
Branch of knowledge	15 «Automation and Instrumentation»
Specialty	151 «Automation and computer integrated technologies»
Educational program	«Automated control of technological processes»
Orientation of educational program	educational and scientific
Master's program	«Energy Efficient Control Systems of Biotechnological Objects»
Form of training	full-time
Term of study (Credits)	2 years (120)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	research engineer of computer systems and automatics

I. TRAINING PROCESS SCHEDULE
training specialists second (master's) level of higher education in 2017 entry
specialty «Automation and computer integrated technologies»
of educational program «Automated control of technological processes»

Year of study	2017 year												2018 year												2019 year											
	September			October			November			December			January			February			March			April			May			June			July			August		
	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
I	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
II																																				

Year of study	2017 year												2018 year												2019 year											
	September			October			November			December			January			February			March			April			May			June			July			August		
	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
I	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
II																																				

Legend

	-	Theoretical training	X	-	Scientific-practical training
:	-	Examination session	3	-	Defence of Scientific training report
-	-	vacation	II	-	State certification (state examination and diploma defence)
Д	-	Scientific training (Scientific component)	//	-	State certification (state examination and diploma defence)

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Disciplines	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work			Practical training		Practical training practice	Distribution of hours per week within an acad. year and semesters			
		Hours	Credits	Exam	Test	Course paper	Total	Lectures	Including		Laboratory classes	Seminars								
									1	2			3	4						
															Number of weeks in semester				12	11
12	11	10	10	18																

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1. STANDARD ACADEMIC DISCIPLINES																	
1	Philosophy of Science and Innovation	90	3	1			36	12		24	54						
2	Civil Protection	90	3		1		24	12		12	66			2			
3	Automated Accounting of Energy and Material Resources	120	4		2		33	11	22		87				3		
4	Computer-Simulation Control Systems in Agriculture	150	5		2		44	11	22	11	106				4		
5	Technological Processes Automation	150	5	2		15	44	11	22	11	106				4		
6	ACS of Technological Processes in Agriculture	120	4	2			33	11	22		87				3		
7	CAD of Automation Systems in Agriculture	150	5	2		15	33	11	22		117				3		
8	Installation, Commissioning and Maintenance of Automation Systems	120	4	2		15	36	12	24		84				3		
9	Special Sections of High Mathematics	90	3	1			48	24		24	42				4		
10	Safety in the Area	90	3	1			36	12	24		54				3		
Total		1170	39				367	127	158	82	803	0	0	12	20	0	0
2. ELECTIVE ACADEMIC DISCIPLINES																	
2.1. Disciplines offered by University																	
1	Agricultural Policy	90	3		1		36	12		24	54			3			
2	Methodology and Organization of Scientific Research on the Basics of Intellectual Property	420	14		3, 4		60	30	20	10	360					2	4
3	Business Foreign Language	150	5	1			36			36	114				3		
Total		660	22				132	42	20	70	528	0	0	6	0	2	4
2.2. Disciplines offered by students																	
1	Calculations of Economic Efficiency of Scientific Developments	90	3		3		20	10		10	70					2	
2	Object-Oriented Programming	90	3		2		44	22	22		46				4		
3	Robotic Complex and Systems in Agriculture	90	3		3		30	10	20		60					3	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
4	Intelligent Control Systems of Biotechnical Objects	360	12	4			120	40	80		240						12
5	Computer Integrated Control Systems	90	3	3		15	33	11		22	57					3	
6	Modeling and Identification of Biotechnical Objects in Agriculture	150	5		1	15	66	22	44		84			6			
7	Neuro Information Control Networks of Biotechnical Objects	90	3	3			40	20	20		50					4	
Master's program «Energy Efficient Control Systems of Biotechnological Objects»																	
8	Special Systems	180	6	3		15	40	20	20		140					4	
9	Methods for Preparing Research	150	5		4		20	10		10	130						2
Total		1290	43				413	165	206	42	877	0	0	6	4	16	14
3. OTHER FORMS OF TRAINING																	
Practical training		300	10									180	180				
Master's thesis preparation and defense		180	6								480						
Course work (project)				x	x	3								1	1	1	1
Tests					9									4	4	3	1
Exams				12										3	3	3	2
Total for educational program		3600	120				912	334	384	194	2688	180	180	24	24	18	18

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standart academic disciplines	1170	39	33
2. Elective academic disciplines	1950	65	54
2.1. Disciplines offered by University	660	22	18
2.2. Disciplines offered by students	1290	43	36
3. Other forms of training	480	16	13
Total for educational program	3600	120	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	21	4	16	–	–	11	52
2	20	4	6	3	1	6	40
Total	41	8	22	3	1	17	92

V. PRACTICAL TRAINING

№	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Operational Training of Computer Systems	1	210	7	16
2	Research Training of Master's Thesis	2	90	3	6

VI. COURSE PAPER AND PROJECTS

№	Discipline	Hours	Credits	Course paper	Course projects
1	Modeling and Identification of Biotechnical Objects in Agriculture	30	0,5	KP	
2	Complex course project in disciplines «Technological Processes Automation», «CAD of Automation Systems in Agriculture» and «Installation, Commissioning and Maintenance of Automation Systems»	30	1		KP
3	Complex course project in disciplines «Methods and Tools of Modern Automated Control of Technological Processes» and «Computer-Simulation Control Systems in Agriculture»	30	1		KP

VII. STATE CERTIFICATION

N	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	180	6	5

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE
EDUCATIONAL AND RESEARCH INSTITUTE OF FORESTRY AND PARK GARDENING MANAGEMENT**

CURRICULUM of training specialists in 2017 academic year

Level of higher education	the second (Master)
Branch of knowledge	18 «Industrial and Technologies»
Specialty	187 «Woodworking and Furniture Technologies»
Educational program	«Woodworking and Furniture Technologies»
Orientation of educational program	educational and professional
Master's program	«Nowadays Woodworking Technologies»
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	Master of woodworking and furniture technologies

I. TRAINING PROCESS SCHEDULE

Year of study	2017year												2018year																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
	September				October				November				December				January				February				March				April				May				June				July				August				27																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
	4	11	18	25	2	9	16	23	X	6	13	20	XI	4	11	18	25	1	8	15	22	I	5	12	19	II	5	12	19	III	10	17	24	31	7	14	21	V	4	11	18	25	2	9	16	23	VII	4	11	18	25	VIII	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
	9	16	23	30	7	14	21	28	XI	11	18	25	XII	9	16	23	30	6	13	20	27	II	10	17	24	III	10	17	24	31	7	14	21	28	V	12	19	26	VI	9	16	23	30	7	14	21	28	VIII	11	18	25	IX																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

Legend:

-	theoretical training	X	-	scientific-practical training
-	examination session	II	-	preparation of master's work
-	vacation	//	-	state certification (protection of master's thesis)

II. CURRICULUM OF THE EDUCATIONAL PROCESS

№ п/п	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)					Individual work	Practical training		Distribution of hours per week within an acad. year and semesters		
		Hours	Credits	Exam	Test	Course paper	Total	Including			practical training		manufacturing practice				
								Lectures	Laboratory classes	Seminars							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
1. STANDARD ACADEMIC DISCIPLINES																	
1	Actual problems of mechanical wood working	180	6	1		1	45	30		15	135				3		
2	Theory And Practice Of mechanical Wood working	180	6	1			60	30		30	120				4		
3	Theory Of Thermal Treatment Of Wood	180	6	1			60	30		30	120				4		
4	Theory and technology for agglutination of wood	180	6		1		60	30		30	120				4		
5	Modeling and optimization of technological processes	120	4	2			60	30		30	60					4	
	Total	840	28	4	1	1	285	150	0	135	555	0	0	15	4	0	
2. ELECTIVE ACADEMIC DISCIPLINES																	
2.1. Disciplines offered by University																	
1	Forest policy	90	3		2		30	15		15	60					2	
2	Foreign language (professional orientation)	120	4	1			30			30	90				2		
3	Methodology and organization of scientific research on the basics of intellectual property	90	3		2		30	15		15	60					2	
	Total	300	10	1	2	0	90	30	0	60	210	0	0	2	4	0	
2.2. Disciplines offered by students																	
1	Planning At The Woodworking Industry	120	4		1	1	60	30		30	60				4		
2	Planning and design of wood	210	7	2		2	60	30		30	90	60				4	
3	Ergonomics of furniture products	90	3		2		45	30	15		45				3		
4	Technology Of Special Woodworking Industries	90	3		2		45	30	15		45					3	
5	Foreign trade in the wood-processing enterprises	90	3		2		30	15	15		60					2	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
6	Mechanical and technological properties of wood	90	3	2			45	15		30	45				3	
7	Innovative woodworking machinery	90	3	2			60	30		30	30				4	
	Total	780	26	3	4	2	345	180	45	120	375	60	0	7	15	0
	Training practice	60	2													
	Manufacturing practice	540	18													
	Preparation and defense of master's thesis	180	6													
	Total for educational program	2700	90	3	4	2	345	180	45	120	375	60	0	24	24	0

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standart academic disciplines	840	28	31
2. Elective academic disciplines	1080	36	40
2.1. Disciplines offered by University	300	10	11
2.2. Disciplines offered by students	780	26	29
3. Other forms of training	780	26	29
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	30	4	8	2		8	52
2			12	3	1		16
Total	30	4	20	5	1	8	68

V. PRACTICAL TRAINING

Nº	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Manufacturing practice	1,2	540	18	20

VI. COURSE PAPER AND PROJECTS

Nº	Discipline	Hours	Credits	Course paper	Course projects
1	Actual problems of mechanical wood working	30	1		CP
2	Projecting and desing furniture products	30	1		CP
3	Planning At The Woodworking Industry	30	1		CP

VII. STATE CERTIFICATION

Nº	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	180	6,0	5

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE**

EDUCATIONAL AND RESEARCH INSTITUTE OF FORESTRY AND PARK GARDENING MANAGEMENT

CURRICULUM

of training specialists in 2017 academic year

Level of higher education	second (Master)
Branch of knowledge	20 «Agricultural science and food»
Specialty	205 «Forestry»
Educational program	«Forestry»
Orientation of educational program	educational and professional
Master's program	«Silvics and practical silviculture», «Forest melioration», «Forest renewal and breeding», «Management of forest resources and forest inventory», «Sustainable forestry», «Game management»
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis of	first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	Master of Forestry

I. TRAINING PROCESS SCHEDULE

for training specialists on second (master's) level of higher education for 2017 entry year on specialty «Forestry» of educational program «Forestry»

[illegible]

Legend:

	-	theoretical training
:	-	examination period
-	-	vacation
0	-	educational practice

X	-	industrial practice
II	-	preparation of master's work
//	-	state certification (defense of master's thesis)

II. CURRICULUM OF EDUCATIONAL PROCESS

№	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)				Auditorium activity (hours)				Individual work		Practical training		Practical training practice		Distribution of hours per week within an acad. year and semesters		
		Hours	Credits	Exam	Test	Course project	Total	Lectures	Laboratory classes	Including Seminars	12	13	14	15	16	17	18	19	20	21
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1. MANDATORY ACADEMIC DISCIPLINES																				
1	Forestry Management	120	4		1		45	30	15		75			3						
2	Regulation of forest productivity	180	6	1		1	60	30	30		120			4						
3	GIS-technology in Forestry	120	4		1		45	30	15		45	30		3						
4	Planning of Forest Management	180	6	2	1	2	90	45	45		90			4	2					
	Total	600	20	2	3	2	240	135	105	0	330	30	0	14	2	0				
2. SELECTIVE ACADEMIC DISCIPLINES																				
2.1. Disciplines chosen by the University																				
1	Forest policy	90	3		1		30	15		15	60			2						
2	Business foreign language	90	3	1			30	0		30	60			2						
3	Methodology and organization of scientific research with basics of intellectual property	90	3		1		30	15		15	60			2						
	Total	270	9	1	2		90	30	0	60	180	0	0	6	0	0				
2.2. Disciplines chosen by students																				
2.2.1. Master's program "Silvics and practical silviculture"																				
1	Forest industry production	240	8	1	2		60	25	10	25	165	15		4						
2	Forest roads and forest transportation	150	5	2			45	30		15	105				3					
3	Forestry commodity science	90	3		2		45	30	15		45				3					
4	Game science	90	3		2		45	30		15	45				3					
5	Forest Ecology and typology	90	3		2		45	30		15	45				3					
6	Increasing productivity of forests by silvicultural methods	210	7	1			60	30		30	150				4					
7	Non-timber forest products and secondary use of forests	90	3		2		45	30		15	45				3					

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
8	Biological basis of care cuttings	90	3		2		45	30		15	30	15			3	
	Total	1050	35	3	6	0	390	235	25	130	630	30	0	4	22	0
2.2.2. Master's program "Forest melioration"																
1	Inventory of protective plantations	90	3		2		45	30		15	45				3	
2	Forest land reclamation	120	4		2		45	30		15	75				3	
3	Erosion science	90	3	2			45	30		15	45				3	
4	Systems of soil erosion control	240	8	2	2		60	25		35	150	30			4	
5	Optimization of forest-agricultural landscapes	180	6	1			60	30		30	120		4			
6	Protective afforestation	120	4		2		45	30		15	75				3	
7	Protective plantations along transportation ways	90	3	2			45	30		15	45				3	
8	Hydrotechnical melioration	120	4		2		45	30		15	75				3	
	Total	1050	35	4	5	0	390	235	0	155	630	30	0	4	22	0
2.2.3. Master's program "Forest Protection"																
1	Forest pathology with basics of plant immunity	180	6	2			60	30		30	90	30			4	
2	Forecast of pests and pathogens populations	150	5	2			45	30		15	105				3	
3	Mathematical modeling of pests and pathogens populations	90	3		2		45	30		15	45				3	
4	Forest nematology	90	3		2		45	30		15	45				3	
5	Technology of integrated protection	240	8	1			60	30		30	180		4			
6	Forest plant bacteriology	90	3		2		45	30		15	45				3	
7	Diagnostics of pests and pathogens	120	4	2			45	30		15	75				3	
8	Mycotrophy of arboreal plants	90	3		2		45	30		15	45				3	
	Total	960	35	4	5	0	390	240	0	150	630	30	0	4	22	0
2.2.4. Master's program «Forest renewal and cultivation»																
1	Modern technologies of nursery	150	5	2			45	15	15	15	105				3	
2	Microclonal propagation of arboreal plants	150	5		2		45	15	15	15	105				3	
3	Methods of rehabilitation of technogenically disturbed lands by means of forest planting	90	3		2		45	30		15	45				3	
4	Industrial methods of forest cultivation	150	5	1			60	30		30	90		4			
5	Ecologically-adaptive bases of reforestation and afforestation	180	6	2			45	15		30	105	30			3	
6	Increasing forests productivity by forest cultivation means	150	5	2			60	30		30	90				4	
7	Forest seed sort science	90	3		2		45	30	15		45				3	
8	Forest plantations of green belts	90	3		2		45	30		15	45				3	
	Total	1050	35	4	4	0	390	195	45	150	630	30	0	4	22	0

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
2.2.5. Master's program "Management of forest resources and forest inventory"																
1	Management of forest resources	150	5	2			45	30		15	105				3	
2	Special types of forest mensuration	150	5	1			60	30		30	90			4		
3	Special types of forest inventory	150	5,	2			60	30		30	90				4	
4	Forest Productivity Modeling	120	4		2		30	10		20	90				2	
5	Forest Inventory and Forest Monitoring	120	4	2			45	30		15	45	30			3	
6	Economics of nature use	90	3		2		45	30		15	45				3	
7	Foreign trade in forest sector	90	3		2		45	30		15	45				3	
8	Information systems in forestry	180	6	2			60	20		40	120				4	
	Total	1050	35	5	3	0	390	210		180	630	30	0	4	22	0
2.2.6. Master's program «Game management»																
1	Immobilization and transport of animals	240	8	1			60	30		30	165	15		4		
2	Hunting tourism and regional features hunting	150	5	2			45	30		15	105				3	
3	Zoo business and reintroduction of wild animals	180	6	2			60	30		30	105	15			4	
4	Hunting resources and hunting products	90	3		2		45	30	15		45				3	
5	Innovative technologies in game management	120	4		2		45	30	15		75				3	
6	Zoogeographical and hunting zoning	90	3		2		45	30	15		45				3	
7	Evolution of the animal world	90	3		2		45	30	15		45				3	
8	Game animals population management	90	3		2		45	30	15		45				3	
	Total	1050	35	3	6	0	390	240	75	75	630	30	0	4	22	0
	Educational practice	60	2													
	Industrial practice	540	18													
	Preparation and defense of master's thesis	180	6													
	Total for educational program	2700	90				695	330	130	235	1555	0	0	24	24	0

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Mandatory academic disciplines	930	20	22
2. Selective academic disciplines	1320	44	49
2.1. Disciplines selected by the University	270	9	10
2.2. Disciplines selected by students	1050	35	39
3. Other forms of training	450	26	29
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA ON TIME BUDGET (BY WEEKS)

Study year	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	30	4	8	2		8	52
2			12	3	1		16
Total	30	4	20	5	1	8	68

V. PRACTICAL TRAINING

Nº	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Industrial probation	1	60	2	2
2	Pre-defence practical training	2	180	6	18

VI. COURSE PAPERS AND PROJECTS

Nº	Discipline	Hours	Credits	Course papers	Course projects
1	Regulation of forest productivity	30	1		KII
2	Planning of Forest management planning	30	1		KII
3	Course project on the chosen Master's program	30	1		KII

VII. STATE CERTIFICATION

Nº	Attestation	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	180	6	5

CURRICULUM of training specialists in 2017 academic year

Level of higher education	second (Master)
Branch of knowledge	26 «Agricultural science and food»
Specialty	206 «Park and Gardening Management»
Educational program	«Park and Gardening Management»
Orientation of educational program	educational and professional
Master's program	«Landscape architecture», «Decorative Nursery», «Landscape building», «Ornamental horticulture»
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis of	first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	Master of Landscape-Park Management

II. CURRICULUM OF THE EDUCATIONAL PROCESS

№ n/n	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)				Audience employments (hours)				Individual work		Practical training		Distribution of hours per week within an acad. year and semesters			
		Hours	Credits	Exam	Test	Course paper	Total	Including			12	13	14	1 year			2 year		
								Lectures	Laboratory classes	Seminars				1	2	Number of weeks in semester			
																		15	15
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17			
1. MANDATORY ACADEMIC DISCIPLINES																			
1	Computer design technologies	150	5		2	2	45	15	30		75		30		3				
2	Greenhouse facility	120	4		1		45	30	15		75			3					
3	Forest-parks management	180	6		2		90	45		45	90				6				
4	Reconstruction and restoration of landscape-gardening objects	150	5		1	1	60	30	30		90			4					
5	Dendrological projecting	150	5	1			75	30	45		75			5					
6	Forest-parks economy	120	4	1			30	15		15	90			2					
7	Inner phytodesign	120	4		1		30	15		15	60		30	2					
8	Soils and soils compounds	90	3		1		30	15	15		60			2					
Total		1080	36	2	6	2	405	195	135	75	555		60	18	9	0			
2. SELECTIVE ACADEMIC DISCIPLINES																			
2.1. Disciplines chosen by the University																			
1	Business foreign language	90	3	2			30			30	60				2				
2	Methodology and organization of scientific research with basics of intellectual property	90	3		1		30	15		15	60			2					
Total		180	6	1	1	0	60	15	0	45	120			2	2	0			
2.2. Disciplines chosen by students																			
2.2.1 Master's program "Landscape architecture"																			
1	Landscape design	150	5	1			60	30		30	90			4					
2	Dendrological recultivation of disturbed landscapes	150	5		2		45	30		15	105				3				
3	Park science	90	3	2			45	30		15	45				3				
4	Landscape planning	90	3	2			30	15	15		60				2				
5	Form diversity of ornamental arboreal plants	90	3		2		45	15	30		45				3				
6	Ecological expertise	90	3		2		30	15	15		60				2				

Total		660	22	3	3	0	255	135	60	60	405		4	13	0
2.2.2. Master's program "Landscape building"															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Vertical planning of landscape objects	150	5		2		45	15		30	105				17
2	Agricultural engineering in park-garden building	150	5	1			60	30		30	90			4	
3	Parks and garden constructions, mechanisms and equipment	90	3	2			30	15		15	60				2
4	Landscape planning	90	3	2			45	30		15	45				3
5	Dendrological recultivation of disturbed landscapes	90	3		2		45	15		30	45				3
6	Ornamental plants protection	90	3		2		30	15	15		60				2
Total		660	22	3	3	0	255	120	15	120	405			4	13
2.2.3. Master's program "Ornamental Nursery"															
1	Modern technologies in ornamental nursery	150	5		1		60	30		30	90			4	
2	Regulating growth and mineral nutrition of arboreal plants	150	5	2			45	15		30	105				3
3	Potted woody plants cultivation	90	3	2			45	30		15	45				3
4	Nurseries rules and regulations	90	3	2			30	15		15	60				2
5	Biotechnology methods in decorative nursery	90	3		2		45	15	30		45				3
6	Planting stock quality and methods of its assessment	90	3		2		30	15	15		60				2
Total		660	22	3	3	0	255	120	45	90	405			4	13
2.2.4. Master's program "Ornamental horticulture"															
1	Plant breeding and seed study	150	5	1			60	30		30	90			4	
2	Dendrological recultivation of disturbed landscapes	150	5		2		45	30		15	105				3
3	Ornamental plants protection	90	3	2			45	30		15	45				3
4	Ornamental horticulture	90	3	2			30	15	15		60				2
5	Form diversity of ornamental arboreal plants	90	3		2		45	15	30		45				3
6	World technologies in ornamental nursery	90	3		2		30	15	15		60				2
Total		660	22	3	3	0	255	135	60	60	405			4	13
Industrial practice		540	18												0
Educational practice		60	2												
Master's thesis preparation and defense		180	6												
Number of Course papers (projects)						2									
Number of Tests					19										
Number of Exams				15											
Total for educational program		2700	90											24	24
															0

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standart academic disciplines	1080	36	40
2. Elective academic disciplines	1080	28	31
2.1. Disciplines offered by University	420	6	7
2.2. Disciplines offered by students	660	22	24
3. Other forms of training	540	26	29
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF TIME BUDGET (BY WEEKS)

Study year	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	30	4	8	2		8	52
2			12	3	1		16
Total	30	4	20	5	1	8	68

V. PRACTICAL TRAINING

№	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Industrial probation	1	60	2	2
2	Pre-defence practical training	2	180	6	18

VI. COURSE PAPERS AND PROJECTS

№	Discipline	Hours	Credits	Course papers	Course projects
1	Reconstruction and restoration of landscape-gardening objects	30	1		CP
2	Computer design technologies	30	1		CP

VII. STATE CERTIFICATION

№	Attestation	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	180	6	5

CURRICULUM of training specialists in 2017 academic year

Level of higher education	The second (Master)
Branch of knowledge	08 «Law»
Specialty	081 «Law»
Educational program	«Law»
Orientation of educational program	educational and professional
Master's program	Land Law
	The Court. Office of Public Prosecutor. The legal profession
Form of training	full-time
Term of study (Credits)	1,5 year (90 ECTS)
On the basis of	the first level of higher education (bachelor)
Educational degree	«Master»
Qualification	Master of Law

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Disciplines	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work			Practical training		Distribution of hours per week within an acad. year and semesters				
		Hours	Credit	Semesters			Total	Including			practical training	manufacturing practice	1 year			2 year				
				Exam	Test	Course paper		Lectures	Laboratory classes	Seminars			1	2	3					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	15	16	17			
1. COMPULSORY ACADEMIC DISCIPLINES																				
1	Philosophy of Law	120	4	1			30	15		15	90			2						
2	Rule-Making Technicality	120	4	1			30	15		15	90			2						
3	Civil Procedure Document	120	4	1			45	30		15	75			3						
4	International legal regulation of food security	90	3		1		30	15		15	6			2						
5	International treaty law	90	3		1		30	15		15	60			2						
6	Problems of Information Law	90	3		1		45	15		30	45			3						
7	The law of international organizations	120	4	2			30	15		15	90			2						
8	Interpretation of Law	90	3		2		30	15		15	60			2						
9	The problems of ownership	120	4	2			60	30		30	60			2						
10	Theoretical issues of civil law	120	4	2		2	60	30		30	60			2						
11	Current issues preventing and combating corruption in Ukraine	90	3		2		45	30		15	45				3					
12	Current issues of agrarian law	120	4	2			45	15		30	75				3					
13	Current problems of natural resource law	120	4		2		30	15		15	90				2					
14	The law on environmental safety	90	3		3		20	10		10	70						2			
15	Advisory activities of a lawyer	90	3	3			30	10		20	60						3			
Total		1590	53	8	7	1	560	275		285	976	0	0	14	16		5			
2. ELECTIVE ACADEMIC DISCIPLINES																				
2.1. Disciplines chosen by University																				
1	Foreign language for specific purposes	150	4	1			30	15		15	90			2						
2	Agricultural policy	90	3		1		30	15		15	60			2						
3	Methodology and organization of scientific research and the principles of intellectual property	90	3		2		30	15		15	90				2					
Total		330	11	1	2	0	60	45		45	240	0	0	4	2		0			

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
2.2. Disciplines chosen by students																
Master's program "Land Law"																
1	State registration of land and rights to them	90	3	3	3		20	10		10	70					2
2	Legal aspects of the protection of land rights	90	3		3		20	10		10	70					2
3	The legal regulation of the land market	90	3	3		3	20	10		20	70					2
4	Legal protection of lands	90	3	3		3	20	10		10	70					2
5	Land law of foreign countries	120	4	3			30	10		10	90					3
6	Legal problems acquisition and sale of land rights	90	3		3		20	10		10	70					2
Total		570	19	3	3	1	130	60		70	440	0	0	0	0	13
Master's program " The Court. Office of Public Prosecutor. The legal profession "																
1	Modern problems of the judicial system in Ukraine	90	3	3			20	10		10	70					2
2	The Prosecutor's Office of Ukraine	90	3		3		20	10		10	70					2
3	Problems of reforming law enforcement bodies of Ukraine	90	3	3		3	20	10		20	70					2
4	Problems and consideration of criminal cases	90	3		3		20	10		10	70					2
5	Actual problems of criminal legal qualifications	120	4	3			30	10		10	90					3
6	Problems of forensic activities	90	3		3		20	10		10	70					2
Total		570	19	3	3	1	130	60		70	440	0	0	0	0	13
3. OTHER FORMS OF TRAINING																
Total for elective part																
Writing and defense of master's thesis		900	30	4	5		220	105		115	680					
Practical training		90	3									60	60			
Course work		120	4													
Tests		2														
Exams		12														
Total		2700	90	12	12	2	780	380		400	1656	60	60	18	18	10

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Compulsory academic disciplines	1590	53	60
2. Elective academic disciplines	900	30	34
2.1. Disciplines chosen by University	330	11	14
2.2. Disciplines chosen by students	570	19	20
3. Other form of training	210	7	6
Total	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of bachelor thesis	State Certification	Holidays	Total
1	30	4	10	-	-	8	52
2	10	2	-	3	1	-	16
Total	40	6	10	3	1	8	68

V. PRACTICAL TRAINING

Nº	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Production Practice	2	30	1	2
2	Pedagogical practice	2	90	3	8

VI. COURSE PAPER AND PROJECTS

Nº	Discipline	Hours	Credits	Course paper	Course projects
1	Theoretical issues of civil law	30	1	+	
2	In accordance with to specialization	30	1	+	

VII. STATE CERTIFICATION

N	Attestations	Hours	Credits	Amount of weeks
1	State exam	30	1	1
2	Protection of master's work	30	1	1

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE**

FACULTY OF LAND MANAGEMENT

**CURRICULUM
of training specialists in 2017 academic year**

Level of higher education	the second (Master)
Branch of knowledge	19 «Architecture and construction»
Specialty	193 «Geodesy and Land Management»
Educational program	«Geodesy and Land Management»
Orientation of educational program	educational and professional
Master's program	«Land Management and Cadastre», «Land Conservation», «GIS in Land Management», «Evaluation of Land and Property», «Geodetic-Cartographic Technologies in Land Management»
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	Master of Science in Land Management and Cadastre

I. TRAINING PROCESS SCHEDULE
training specialists second (master's) level of higher education in 2017 entry
specialty 193 «Geodesy and Land Management»

Year of study	2017 year												2018 year																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)				Audience employments (hours)				Individual work		Practical training		Distribution of hours per week within an acad. year and semesters			
		Hours	Credits	Semesters			Total	Including			13	14	1 year			15	16	17	
				Exam	Test	Course paper		Lectures	Laboratory classes	Seminars			semester						
													1	2	3				
																			Number of weeks in semester
1	2	3	4	5	6	7	8	9	10	11	12	0	15	15	15	16	17		
1. STANDARD ACADEMIC DISCIPLINES																			
1	State Examination of land management decisions	90	3		1		30	15		15	60			2					
2	Agricultural, land and environmental law	90	3		1		30	15		15	60			2					
3	Land Resources Management	120	4	1		1	30	15		15	90			2					
4	Tax system	90	3		1		30	15		15	60			2					
5	Land Monitoring and Conservation	180	6	2			45	15		30	135				3				
6	The legal process of land management	150	5	2			45	15		30	105				3				
7	The land market and real estate	120	4		2		30	15		15	90				2				
8	Design engineering	180	6	2		2	45	15		30	135				3				
9	Organization of land surveying works	90	3	2			30	15		15	60				2				
10	Institutional support cadastre and real estate	120	4	3			30	10		20	90							3	
11	Information technologies and patenting in scientific research	150	5		3		30	10		20	120							3	
12	GIS in cadastral systems	120	4	3			30		30		90							3	
13	Economics of land use and land management	120	4	3			30	10		20	90							3	
Total		1620	54	8	5	2	435	165	30	240	1185	0	0	8	13			12	
2. ELECTIVE ACADEMIC DISCIPLINES																			
2.1. Disciplines offered by University																			
1	Methodology and organization of scientific research on the basics of intellectual property	90	3		1		30	15	15		60				2				
2	Business foreign language	150	5	1			60			60	90				4				
3	Agricultural Policy	90	3		2		30	15		15	60				2				
Total		330	11	1	2		120	30	15	75	210	0	0	6	2			0	
2.2. Disciplines offered by students																			
Master's program «Land Management and Cadastre»																			
1	Aided design technology in land management	120	4	1			30	15	15		90				2				
2	Territorial planning and spatial development	120	4	1			30	15	15		90				2				

3	Quality Management of Land Management Projects	150	5	2			45	15	30		105				3
4	Standardization and Regulation of Land Management	270	9	3			60	20	40		210				6
Total		660	22	4			165	65	100	0	495	0	0	4	6
Master's program «Land Conservation»															
1	Formation of agrolandscapes	120	4	1			30	15	15		90			2	
2	Evaluation and forecast of land quality	120	4	1			30	15	15		90			2	
3	Engineer-technological regulation of land protection	150	5	2			45	15	30		105			3	
4	Prediction of land use and land conservation	270	9	3			60	20	40		210				6
Total		660	22	4			165	65	100	0	495	0	0	4	6
Master's program «GIS in land management»															
1	Information Modeling and programming in land management	120	4	1			30	15	15		90			2	
2	Methods of remote sensing in land management	120	4	1			30	15	15		90			2	
3	Geoinformation analysis and modeling	150	5	2			45	15	30		105			3	
4	Integration of GIS, remote sensing and GNSS data	270	9	3			60	20	40		210				6
Total		660	22	4			165	65	100	0	495	0	0	4	6
Master's program «Evaluation of Land and Property»															
1	Information support of monetary evaluation of land	120	4	1			30	15	15		90			2	
2	Registration of ownership	120	4	1			30	15	15		90			2	
3	Cadastral of natural resources	150	5	2			45	15	30		105			3	
4	Real Estate Evaluation	270	9	3			60	20	40		210				6
Total		660	22	4			165	65	100	0	495	0	0	4	6
Master's program «Geodetic-Cartographic Technologies in Land Management»															
1	Computer technologies of mapping	120	4	1			30	15	15		90			2	
2	National Spatial Data Infrastructure	120	4	1			30	15	15		90			2	
3	Topographic, geodetic and cartographic supply of land management	150	5	2			45	15	30		105			3	
4	Thematic mapping of land resources	270	9	3			60	20	40		210				6
Total		660	22	4			165	65	100	0	495	0	0	4	6
Total for elective part		990	33	5	2	0	285	105	105	75	705	0	0	10	6
3. OTHER FORMS OF TRAINING															
Master's thesis preparation and defense		45	1,5												
Practical training		45	1,5										45		
Course work						2									
Tests						7									
Exams				13											
Total for educational program		2700	90	13	7	2	720	270	135	315	1890	0	45	18	18

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standart academic disciplines	1620	54	60
2. Elective academic disciplines	990	33	36,7
2.1. Disciplines offered by University	330	11	12,2
2.2. Disciplines offered by students	660	22	24,4
3. Other forms of training	90	3	3,3
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	30	5	6	3	-	8	52
2	10	2		3	1		16
Total	40	7	6	6	1	8	68

V. PRACTICAL TRAINING

Nº	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Professional internship	2	45	1,5	6

VI. COURSE PAPER AND PROJECTS

Nº	Discipline	Hours	Credits	Course paper	Course projects
1	Land Resources Management	30	1	X	
2	Design engineering	30	1		X

VII. STATE CERTIFICATION

N	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	45	1,5	7

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE**

ECONOMIC FACULTY

**CURRICULUM
of training specialists in 2017 academic year**

Level of higher education	the second (Master)
Branch of knowledge	05 «Social and Behavioral Sciences»
Specialty	051 «Economics»
Educational program	Economics of enterprise
Orientation of educational program	educational and professional
Master's program	«Business planning production activities in agriculture», «Economy of Labor and Social Partnership», «Agricultural Economics formations», «Regulation of Agricultural Markets»
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis of	The first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	Master's degree in Economics

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work		Practical training		Distribution of hours per week within an acad. year and semesters		
		Hours	Credits	Semesters			Total	Including			12	13	14	1 p.h. 2 p.h. semester			
				Exam	Test	Course paper		Lectures	Laboratory	Seminars				1	2	3	
																	Number of weeks in semester
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
1. STANDARD ACADEMIC DISCIPLINES																	
1	Managerial Economics	150	5	E			60	30			30	90				4	
2	competitiveness	150	5	E			60	30			30	90			4		
3	Modeling in management of production systems	120	4		3		45	15	30			75				3	
4	Stock market	120	4	E			45	15			30	75			3		
5	Project management	150	5	E			45	15			30	105				3	
6	Business Planning entrepreneurship in agriculture	150	5	E			45	30			15	90				3	
7	Global economy	150	5	E			45	15			30	105			3		
8	Corporate Social Responsibility	150	5	E			45	15			30	105				3	
9	The taxation of business entities and individuals	120	4		3		45	15			30	75				3	
10	Economics of production	150	5	E			60	30			30	90			4		
11	Computer technologies in accounting, tax and auditing	120	4		3		15		15			105				1	
Total		1530	51	8	3	0	525	210	45	255	1005	0	0	14	20	0	
2. ELECTIVE ACADEMIC DISCIPLINES																	
2.1. Disciplines offered by University																	
1	Methodology and organization of scientific research with the basics of intellectual property	120	4	E			45	15			30	75			3		
2	Agricultural policy	120	4		3	1	30	15			15	90			2		
3	Business Foreign Language	120	4		3		30		30		90				2		
Total		360	12	1	2	1	105	30	30	45	255	0	0	7	0	0	
2.2. Disciplines offered by students																	
Master's program "Business planning production activities in agriculture"																	
1	Design of entrepreneurship in agriculture	180	6	E		K	60	30		30	120				X		4
2	Agribusiness: development and evaluation	180	6		3		45	15		30	135				X		3
Total		360	12	1	1	1	105	45	0	60	255				3	4	
Master's program "Economy of Labor and Social Partnership"																	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Labor market	180	6	E		K	60	30		30	120		X		4	
2	Social economy	180	6		3		45	15		30	135		X	3		
Total		360	12	1	1	1	105	45	0	60	255			3	4	
Master's program "Agricultural Economics formations"																
1	Economics of agro-industrial units	180	6	E		K	60	30		30	120		X		4	
2	Economy specialized agricultural enterprises	180	6		3		45	15		30	135		X	3		
Total		360	12				105	45	0	60	255			3	4	
Master's program "Regulation of Agricultural Markets"																
1	Regulation of agricultural markets	180	6	E		K	60	30		30	120		X		4	
2	European studies	180	6		3		45	15		30	135		X	3		
Total		360	12				105	45	0	60	255			3	4	
Total		720	24				210	75	30	105	510			10	4	
3. OTHER FORMS OF TRAINING																
Master's thesis preparation and defense		150	5													
Practical training		300	10													
Course work						1										
Tests					6											
Exams				10												
Total for educational program		2700	90	10	6	1	735	285	75	420	9			24	24	

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standard academic disciplines	1530	51	56
2. Elective academic disciplines	780	24	27
2.1. Disciplines offered by University	360	12	13,5
2.2. Disciplines offered by students	360	12	13,5
3. Other forms of training	450	15	17
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Year of study	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	30	5	1			8	44
2		1	16	4	2		23
Total	30	6	17	4	2	8	67

V. PRACTICAL TRAINING

Nº	Type of practice	Semestr	Hours	Credits	Amount of weeks
1	Practical training	2	30	1	1
2	Industrial practice	3	480	16	16

VI. COURSE PAPER AND PROJECTS

Nº	Discipline	Hours	Credits	Course paper	Course project
1	Design of entrepreneurship in agriculture	30	1	X	
2	Labor market	30	1	X	
3	Economics of agro-industrial units	30	1	X	
4	Regulation of agricultural markets	30	1	X	

VII. STATE CERTIFICATION

Nº	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	150	5	3

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE**

ECONOMIC FACULTY

**CURRICULUM
of training specialists in 2017 academic year**

Level of higher education	the second (Master)
Branch of knowledge	05 «Social and Behavioral Sciences»
Specialty	051 «Economics»
Educational program	«Applied Economics»
Orientation of educational program	educational and professional
Master's program	«Regulation of Agricultural Markets», «Competitiveness of agrarian formations»
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis of	The first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	Master's degree in Economics

I. TRAINING PROCESS SCHEDULE
training specialists second (master's) level of higher education in 2017 entry
specialty «Economics» of educational program «Applied Economics»

Year of study	2017 year										2018 year																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work		Practical training		Distribution of hours per week within an acad. year and semesters				
		Hours	Credits	Semesters			Total	Including			12	13	14	1 p.h.					
				Exam	Test	Course paper		Lectures	Laboratory classes	Seminars				semestr					
														1	2	3			
																	Number of weeks in semester		
																	15	15	10
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17			
1. STANDARD ACADEMIC DISCIPLINES																			
1	Applientg econometrics	120	4	1			45	15		30	75			3					
2	Financial management	120	4	1			45	30		15	75			3					
3	Microeconomics	150	5	1			60	30		30	90			4					
4	National economy	120	4		1		45	30		15	75			3					
5	Accounting and Auditing	120	4		1		60	30		30	60			4					
6	Macroeconomics	120	4		1		30	15		15	90				2				
7	Statistical modeling and forecasting	120	4	1			30	15		15	90				2				
8	Applied Economics	120	4	1		1	45	30		15	75				3				
9	Economics of production	120	4	1			45	15		30	75				3				
10	Global economy	120	4		1		45	15		30	75				3				
11	Strategic Environmental Assessment	120	4		1		30	15		15	90				2				
Total		1350	45	6	5	1	480	240		240	870			17	15				
2. ELECTIVE ACADEMIC DISCIPLINES																			
2.1. Disciplines offered by University																			
1	Methodology and organization of scientific research with the basics of intellectual property	150	5		1		30			30	120				2				
2	Agricultural policy	90	3		1		30	15		15	60					2			
3	Business Foreign Language	90	3		1		45	30		15	45					3			
Total		330	11	0	3		105	45		60	225				2	5			
2.2. Disciplines offered by students																			
Master's program "Regulation of Agricultural Markets"																			
1	European studies	150	5		1		30	15		15	120				2				
2	The regulation of land relations	120	4	1			45	15		30	75				3				

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
3	Regulation of agricultural markets	150	5	1		1	60	30		30	90	1	1		4	
Total		420	14	2	1		135	60		75	285	1	1	5	4	
Master's program "Competitiveness of agrarian formations"																
1	Marketing management	150	5	5	1	1	30	15		15	120			2		
2	The competitiveness of agricultural units	120	4	1		1	45	15		30	75	1	1	3		
3	Analysis of investment projects	150	5	1			60	30		30	90				4	
Total		420	14	2	1	1	135	60		75	285	1	1	5	4	0
Total		900	25	2	4	1	240	105		135	510	1	1	7	9	0
3. OTHER FORMS OF TRAINING																
Master's thesis preparation and defense																
Practical training		150	5													
Course work		450	15													
Tests		30				1										
Exams		300			10											
Total for educational program		330		11												
Total for educational program		2700	90	8	9	1	720	345	0	375	1380	1	1	24	24	0

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standard academic disciplines	1350	45	50
2. Elective academic disciplines	750	25	28
2.1. Disciplines offered by University	330	11	12
2.2. Disciplines offered by students	420	14	16
3. Other forms of training	600	20	22
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Year of study	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	30	5	1			8	44
2		1	16	4	2		23
Total	30	6	17	4	2	8	67

V. PRACTICAL TRAINING

Nº	Type of practice	Semestr	Hours	Credits	Amount of weeks
1	Practical training	2	30	1	1
2	Industrial practice	3	480	16	16

VI. COURSE PAPER AND PROJECTS

Nº	Discipline	Hours	Credits	Course paper	Course project
1	Appleng econometrics	30	1	X	
2	Regulation of agricultural markets	30	1	X	
3	The competitiveness of agricultural units	30	1	X	

VII. STATE CERTIFICATION

Nº	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	90	3	3

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE**

ECONOMIC FACULTY

**CURRICULUM
of training specialists in 2017 academic year**

Level of higher education	The second (Master)
Branch of knowledge	07 «Management and Administration»
Specialty	071 «Accounting and taxation»
Educational program	«Accounting and audit»
Orientation of educational program	educational and professional
Master's program	«Accounting and taxation of business entity activities», «Accounting and control support for business entity management», «Accounting and control in the public sector», «Strategic accounting and business and social analytics», «Tax Administration and Control»
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	Master's degree in accounting and taxation

training specialists second (master's) level of higher education in 2017 entry specialty «Accounting and taxation» of educational program «Accounting and audit»

Legend:

X	- scientific-practical training
II	- preparation of master's work
//	- state certification (defense of master's thesis)

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)		Audience employments (hours)				Individual work		Practical training		Distribution of hours per week within an acad. year and semesters				
		Hours	Credits	Semesters		Total	Including		12	13	14	15	16	17				
				Exam	Test		Course paper	Lectures							Laboratory classes	Seminars		
1	2	3	4	5	6	7	8	9	10	11								
1. STANDARD ACADEMIC DISCIPLINES																		
1	Global economy	120	4	x				30	15		15	60			2			
2	Tax management	120	4	x				60	30		30	60			4			
3	Accounting in business management	120	4	x			x	60	30		30	60	x		4			
4	Financial analysis	120	4	x				45	15		30	75			3			
5	Accounting organization	120	4	x				60	30		30	60		x	4			
6	The organization and methodology of the audit	120	4	x				60	30		30	60		x		4		
7	Strategic analysis in enterprise management	120	4	x				45	15		30	45			3			
8	Applied econometrics	120	4	x				45	15	30		45			3			
Total		960	32	8		1	405	180	30	195	465	1	1	17	10			
2. ELECTIVE ACADEMIC DISCIPLINES																		
2.1. Disciplines offered by University																		
1	Methodology and organization of research with the basics of intellectual property	90	3		x			45	30		15	45			3			
2	Agrarian policy	90	3		x			30	15		15	60			2			
3	Business foreign language	150	5		x			30		30		120			2			
Total		330	11		3		105	45	30	30	225			7				
2.2. Disciplines offered by students																		
Master's program "Accounting and taxation of business entity activities"																		
1	Control of agricultural units' activity	90	3		x			45	15		30	45				3		
2	Electronic document management	90	3		x			30	15		15	60				2		
3	Accounting and reporting for small business	90	3		x			30	15		15	60				2		
4	Accounting Forensic examination	90	3	x				45	15		30	45				3		
5	Accounting and financial reporting by international standards	90	3		x			30	15		15	60				2		
6	Accounting of FEA	90	3		x			30	15		15	60				2		
Total		540	18	1	5		210	90		120	330				14			
Master's program "Accounting and control support for business entity management"																		
1	Theory of financial control	90	3		x			30	15		15	60				2		

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
2	Professional ethics of accountants and auditors	90	3		x		30	15		15	60				2	
3	Control of agricultural units' activity	90	3	x			45	15		30	45				3	
4	Accounting forensic examination	90	3		x		45	15		30	45				3	
5	Electronic document management	90	3		x		30	15		15	60				2	
6	Accounting and financial reporting by international standards	90	3		x		30	15		15	60				2	
Total		540	18	1	5		210	90		120	330				14	
Master's program "Accounting and control in the public sector"																
1	Control of public sector institutions	90	3	x			45	15		30	45				3	
2	Analysis of public sector institutions	90	3		x		30	15		15	60				2	
3	Professional ethics of accountants and auditors	90	3		x		30	15		15	60				2	
4	Accounting Forensic examination	90	3		x		45	15		30	45				3	
5	Electronic document management	90	3		x		30	15		15	60				2	
6	Reporting in public sector institutions	90	3		x		30	15		15	60				2	
Total		540	18	1	5		210	90		120	330				14	
Master's program "Strategic accounting and business and social analytics"																
1	Strategic Management Accounting	90	3		x		30	15		15	60				2	
2	Innovation and investment analysis	90	3		x		30	15		15	60				2	
3	Controlling	90	3		x		30	15		15	60				2	
4	Macroeconomic analysis	90	3	x			45	15		30	45				3	
5	Accounting and financial reporting according to international standards	90	3		x		30	15		15	60				2	
6	Business social analysis	90	3		x		45	15		30	45				3	
Total		540	18	1	5		210	90		120	330				14	
Master's program "Tax Administration and Control"																
1	Tax Accounting	90	3		x		30	15		15	60				2	
2	Organization and management of tax supervisory agencies	90	3		x		30	15		15	60				2	
3	Tax policy	90	3		x		45	15		30	45				3	
4	Tax administration	90	3	x			45	15		30	45				3	
5	Tax control	90	3		x		30	15		15	60				2	
6	Electronic document management	90	3		x		30	15		15	60				2	
Total		540	18	1	5		210	90		120	330				14	
3. OTHER FORMS OF TRAINING																
Master's thesis preparation and defense		390	13													
Practical training		480	16													
Course work		1														
Tests		8														
Exams		9														
Total for educational program		2610	87	9	8	1	720	315	60	345	1020	1	1	24	24	

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standard academic disciplines	960	32	35,6
2. Elective academic disciplines	870	29	32,2
2.1. Disciplines offered by University	330	11	12,2
2.2. Disciplines offered by students	540	18	20,0
3. Other forms of training	870	29	32,2
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Year of study	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	30	5	1			8	44
2		1	16	4	2		23
Total	30	6	17	4	2	8	67

V. PRACTICAL TRAINING

Nº	Type of practice	Semestr	Hours	Credits	Amount of weeks
1	Practical training	2	30	1	1
2	Industrial practice	3	480	16	16

VI. COURSE PAPER AND PROJECTS

Nº	Discipline	Hours	Credits	Course paper	Course project
1	Accounting in business management	30	1	x	

VII. STATE CERTIFICATION

Nº	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	60	2	2

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE**

ECONOMIC FACULTY

**CURRICULUM
of training specialists in 2017 academic year**

Level of higher education	the second (Master)
Branch of knowledge	07 «Management and Administration»
Specialty	072 «Finance, banking and insurance»
Educational program	«Finance and credit»
Orientation of educational program	educational and professional
Master's program	«Banking», «Risk Management and Insurance», «Tax consulting», «Corporate Finance», «Financial Analyst in business», «Public Financial Management»
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis of	The first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	Master's degree in Finance, Banking and Insurance

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work		Practical training		Distribution of hours per week within an acad. year and semesters		
		Hours	Credits	Semesters			Total	Including			Practical training	Industrial practice	1 p.h. 2 p.h.				
				Exam	Test	Course paper		Lectures	Laboratory classes	Seminars			semestr				
													1	2	3		
																Number of weeks in semester	
		15	15	10													

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1. STANDARD ACADEMIC DISCIPLINES																
1	Tax management	120	4	1			45	30		15	75			3		
2	Financial management	120	4	1			60	30		30	60			3		
3	Financial services market	120	4	1			45	30		15	75			3		
4	Financial econometrics	90	3		1		30	15	15		60			2		
5	Management of financial readjustment Company	90	3	1			30	15		15	60			2		
6	Insurance management	120	4	1			45	30		15	75			3		
7	Budget management	120	4	1			45	30		15	75			3		
8	Banking management	120	4		1		45	30		15	75			3		
9	Finance Nature	120	4		1		45	15		30	75			3		
10	Global economy	120	4	1			30	15		15	90			3		
11	Project financing	120	4	1			45	30		15	75			3		
12	Mortgages	90	3		1		30	15		15	60			2		
13	Treasury	90	3		1		30	15		15	60			2		
Total		1440	48	8	5	0	525	300	15	210	915	0	0	17	18	0
2. ELECTIVE ACADEMIC DISCIPLINES																
2.1. Disciplines offered by University																
1	Methodology and organization of scientific research with the basics of intellectual property	90	3		1		30	15		15	60				2	
2	Agricultural policy	90	3		1		30	15		15	60			2		
3	Business Foreign Language	150	5		1		30			30	120			2		
Total		420	11	0	3	0	90	30	0	60	240	0	0	4	2	0
2.2. Disciplines offered by students																
Master's program "Banking"																
1	Banking and Management	180	6	1		1	60	30		30	120		X		4	
2	Monetary policy and the National Bank	150	5		1		45	30		15	105		X	3		

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Total		330	11	1	1	1	105	60	0	45	225	0	0	3	4	0
Master's program "Risk Management and Insurance"																
1	Financial support insurance liabilities	180	6	1		1	60	30		30	120		X		4	
2	Agrarian risks and their insurance	150	5		1		45	30		15	105		X	3		
Total		330	11	1	1	1	105	60	0	45	225	0	0	3	4	0
Master's program "Corporate Finance"																
1	Corporate Finance	180	6	1		1	60	30		30	120		X		4	
2	Behavioral Finance	150	5		1		45	30		15	105		X	3		
Total		330	11	1	1	1	105	60	0	45	225	0	0	3	4	0
Master's program "Financial Analyst in business"																
1	Business Analytics	180	6	1		1	60	30		30	120		X		4	
2	Business Valuation	150	5		1		45	30		15	105		X	3		
Total		330	11	1	1	1	105	60	0	45	225	0	0	3	4	0
Master's program "Tax consulting"																
1	International taxation	180	6	1		1	60	30		30	120		X		4	
2	Taxation of legal entities	150	5		1		45	30		15	105		X	3		
Total		330	11	1	1	1	105	60	0	45	225	0	0	3	4	0
Master's program "Public Financial Management"																
1	Financial security state	180	6	1		1	60	30		30	120		X		4	
2	Public Debt Management	150	5		1		45	30		15	105		X	3		
Total		330	11	1	1	1	105	60	0	45	225	0	0	3	4	0
Total		660	22	2	2	2	210	120	0	90	450	0	0	6	8	0
3. OTHER FORMS OF TRAINING																
Master's thesis preparation and defense																
		150	5													
Practical training																
		450	15													
Course work																
						1										
Tests																
				10												
Exams																
				11												
Total for educational program																
		2700	90	9	9	1	720	390	15	315	1380	0	0	24	24	0

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standard academic disciplines	1440	48	53
2. Elective academic disciplines	660	22	24
2.1. Disciplines offered by University	330	11	12
2.2. Disciplines offered by students	330	11	12
3. Other forms of training	600	20	22
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Year of study	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	30	5	1			8	44
2		1	16	4	2		23
Total	30	6	17	4	2	8	67

V. PRACTICAL TRAINING

Nº	Type of practice	Semestr	Hours	Credits	Amount of weeks
1	Practical training	2	30	1	1
2	Industrial practice	3	480	16	16

VI. COURSE PAPER AND PROJECTS

Nº	Discipline	Hours	Credits	Course paper	Course project
1	Banking management	30	1	KP	
2	Financial support insurance liabilities	30	1	KP	
3	Corporate Finance	30	1	KP	
4	Business Analytics	30	1	KP	
5	International taxation	30	1	KP	
6	Financial security state	30	1	KP	

VII. STATE CERTIFICATION

Nº	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	150	5	2

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
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ECONOMIC FACULTY

**CURRICULUM
of training specialists in 2017 academic year**

Level of higher education	The second (Master)
Branch of knowledge	07 «Management and Administration»
Specialty	076 «Entrepreneurship, Trade and Exchange Activities»
Educational program	«Stock exchange activities»
Orientation of educational program	educational and professional
Master's program	«Stock exchange activities», «Analysis of financial and commodity markets», «Commercial activity and trade » full-time
Form of training	1,5 year (90)
Term of study (Credits)	the first level of higher education «Bachelor»
On the basis of	«Master»
Educational degree	Master's degree in Entrepreneurship, Trade and Exchange Activities
Qualification	

I. TRAINING PROCESS SCHEDULE

[illegible]

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work			Practical training		Distribution of hours per week within an acad. year and semesters			
		Hours	Credits	Semesters		Total	Including		10	11	12	13	14	1 p.h.		2 p.h.			
				Exam	Test		Course paper	Lectures						Laboratory classes	Seminars	1	2		
																		Number of weeks in semester	
				15	15														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17			
1. STANDARD ACADEMIC DISCIPLINES																			
1	Organization of Trading	120	4	1			60	30		30	60			4					
2	Exchange commodity market	120	4	1			60	30		30	60			4					
3	Exchange Stock Market	120	4	1			60	30		30	60			4					
4	Analysis and forecasting the stock market	120	4	1		1	60	30	30		60			4					
5	Pricing in the exchange market	90	3	1			60	30		30	90			4					
6	Brokerage activities	90	3		1		45	15	30		45				3				
7	Financial derivatives	120	4	1			60	30	30		60				4				
8	Exchange electronic trading	120	4		1		45	15	30		75				3				
9	International stock markets	90	3	1			45	15	30		45				3				
10	Commercial activity	90	3	1			45	15		30	90				3				
Total		1080	36	8	2	1	540	240	150	150	645			20	16				
2. ELECTIVE ACADEMIC DISCIPLINES																			
2.1. Disciplines offered by University																			
1	Methodology and organization of research with the basics of intellectual property	90	3		1		30	15		15	60				2				
2	Business foreign language	90	3		1		30			30	60				2				
3	Agrarian policy	90	3		1		30	15		15	60				2				
Total		270	9		3		90	45		45	180			4	2				
2.2. Disciplines offered by students																			
Master's program "Stock exchange activities"																			
1	Hedging futures and options	150	5	1			30	15	15		120				2				
2	Trade stock tools	150	5		1		30	15	15		120				2				
3	Clearing and settlement activities	150	5		1		30	15		15	120				2				

Total		450	15	1	2		90	45	30	15	360				6
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Master's program "Analysis of financial and commodity markets"															
1	Fundamental analysis	150	5	1			30	15	15		120				2
2	Technical analysis	150	5		1		30	15	15		120				2
3	Simulations on the market	150	5		1		30	15	15		120				2
Total		450	15	1	2		90	45	45		360				6
Master's program "Commercial activity and trade"															
1	Trading strategies	150	5		1		30	15		15	120				2
2	Commercial activities	150	5	1			30	15	15		120				2
3	Simulations on the market	150	5		1		30	15	15		120				2
Total		450	15	1	2		90	45	30	15	360				6
Total		1800	60	9	7	1	720	330	180	210	1185			24	24
3. OTHER FORMS OF TRAINING															
Master's thesis preparation and defense		420	14												
Practical training		480	16												
Course work		1													
Tests		7													
Exams		9													
Total for educational program		2700	90	9	7	1	720	330	180	210	1185			24	24

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standard academic disciplines	1080	36	40
2. Elective academic disciplines	720	24	26,7
2.1. Disciplines offered by University	270	9	10
2.2. Disciplines offered by students	450	15	16,7
3. Other forms of training	900	30	33,3
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Year of study	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	30	5				9	44
2		1	16	4	2		23
Total	30	6	16	4	2	9	67

V. PRACTICAL TRAINING

Nº	Type of practice	Semestr	Hours	Credits	Amount of weeks
1	Industrial practice	3	480	16	16

VI. COURSE PAPER AND PROJECTS

Nº	Discipline	Hours	Credits	Course paper	Course project
1	Analysis and forecasting the stock market	30	1	x	

VII. STATE CERTIFICATION

Nº	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	60	2	2

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE**

FACULTY OF AGRICULTURAL MANAGEMENT

**CURRICULUM
of training specialists in 2017 academic year**

Level of higher education	the second (Master)
Branch of knowledge	07 «Management and Administration»
Specialty	075 "Marketing"
Educational program	«Marketing»
Orientation of educational program	educational and professional
Master's program	«Logistics», «Advertising Management», «Commercial and intermediary activity», «International trade»
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	master degree in marketing

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work			Practical training		Practical training practice	Distribution of hours per week within an acad. year and semesters		
		Hours	Credits	Semesters			Total	Including			Seminars			Number of weeks in semester					
				Exam	Test	Course paper		Lectures	Laboratory classes										
										1							2	3	
		15			15			0											

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1. STANDARD ACADEMIC DISCIPLINES																
1.	Social responsibility	120	4		1		45	15		15	75			3		
2.	Strategic Marketing	120	4	1		1	45	15		30	75			3		
3.	Logistics management	120	4	1			30	15		30	75			3		
4.	Advertising management	120	4	2			45	15		30	75				3	
5.	Marketing Management	120	4	2		2	45	15		30	75				3	
6.	Forecasting methods in marketing research	120	4	1			45	15		15	90			2		
7.	Marketing planning	120	4		2		30	15		15	90				2	
8.	Management of enterprise competitiveness	120	4		1		30	15		15	90			2		
9.	Commercial activity of intermediary enterprises	120	4		1		30	15		15	90			2		
Total		1080	36	5	4	2	330	135	0	195	750	0	0	15	8	0
2. ELECTIVE ACADEMIC DISCIPLINES																
2.1. Disciplines offered by University																
1.	Agricultural policy	120	4	1			45	15		30	75			3		
2.	Methodology and organization of scientific research with the principles of intellectual property	90	3		1		45	30		15	45			3		
3.	Business foreign language	150	5		1		45			45	105			3		
Total		360	360	12	1	2	0	135	45	0	90	225	0	0	9	0
2.2. Disciplines offered by students																
2.2.1. Free chose disciplines																
1.	Global economy	90	3		2		30	15		15	60				2	
2.	Company innovation development	90	3		2		30	15		15	60				2	
3.	Banking system	90	3		2		30	15		15	60				2	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
4.	Marketing of Innovations	90	3		2		30	15		15	60				2	
5.	Financial management	90	3		2		30	15		15	60				2	
6.	Human resources management	90	3		2		30	15		15	60				2	
7.	International Management	90	3		2		30	15		15	60				2	
8.	Product Innovation Policy	90	3		2		30	15		15	60				2	
9.	Psychology of management and conflict management	90	3		2		30	15		15	60				2	
10.	Business protocol and negotiating	90	3		2		30	15		15	60				2	
11.	Stock market	90	3		2		30	15		15	60				2	
12.	Technology of presentations and web-design	90	3		2		30	15		15	60				2	
13.	Brand Management	90	3		2		30	15		15	60				2	
14.	Risks in marketing	90	3		2		30	15		15	60				2	
15.	Speech-writing	90	3		2		30	15		15	60				2	
16.	Project management	90	3		2		30	15		15	60				2	
17.	Computer graphics in advertising	90	3		2		30	15		15	60				2	
Total		270	9	0	3	0	90	45	0	45	180	0	0	0	6	0
Master's program «Logistics»																
1.	Logistics in FEA	120	4	2			45	15		30	75				3	
2.	Transport Logistics	120	4	2			45	15		30	75				3	
3.	Project Management	120	4		2		30	15		15	90				2	
4.	Mathematical models in logistics	120	4		2		30	15		15	90				2	
Total		480	16	2	2	0	150	60	0	90	330	0	0	0	10	0
Master's program «International trade»																
1.	International trade and world markets conjuncture	120	4	2			45	15		30	75				3	
2.	International Business Transactions	120	4	2			45	15		30	75				3	
3.	Marketing research of foreign markets	120	4		2		30	15		15	90				2	
4.	Logistics in FEA	120	4		2		30	15		15	90				2	
Total		480	16	2	2	0	150	60	0	90	330	0	0	0	10	0
Master's program «Commercial and intermediary activity»																
1.	Direct sale technology	120	4	2			45	15		30	75				3	
2.	Retailing technology	120	4	2			45	15		30	75				3	
3.	Electronic commerce	120	4		2		30	15		15	90				2	
4.	Merchandising	120	4		2		30	15		15	90				2	
Total		480	16	2	2	0	150	60	0	90	330	0	0	0	10	0
Master's program «Advertising Management»																
1.	Advertising projects management	120	4	2			45	15		30	75				3	
2.	Brand Management	120	4	2			45	15		30	75				3	
3.	Creativity in advertising	120	4		2		30	15		15	90				2	
4.	Psychology of Advertising	120	4		2		30	15		15	90				2	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Total		480	16	2	2	0	150	60	0	90	330	0	0	0	10	0
Total for elective part		1050	37	3	7	0	375	150	0	225	735	0	0	9	16	0
3. OTHER FORMS OF TRAINING																
Master's thesis preparation and defense		270	9													
Practical training		240	8									240				
Course work						2										
Tests				8												
Exams					11											
Total for educational program		2700	90	8	11	2	705	285	0	420	1425	0	240	24	24	0

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standart academic disciplines	1080	36	40,0
2. Elective academic disciplines	1110	37	41,1
2.1. Disciplines offered by University	360	12	13,3
2.2. Disciplines offered by students	750	25	27,8
3. Other forms of training	510	17	18,9
Total for educational program	2700	90	100,0

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	30	4	4	4	-	10	52
2	0	0	7	7	1	-	15
Total	30	4	11	11	1	10	67

V. PRACTICAL TRAINING

Nº	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Production practice	-	-	-	-
2	Pre-diploma practice	2,3	270	9	11

VI. COURSE PAPER AND PROJECTS

Nº	Discipline	Hours	Credits	Course paper	Course projects
1	Strategic Marketing	30	1		+
2	Marketing Management	30	1		+

VII. STATE CERTIFICATION

N	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	270	9	8

CURRICULUM of training specialists in 2017 academic year

Level of higher education	the second (Master)
Branch of knowledge	07 «Management and Administration»
Specialty	073 « Management »
Educational program	«Management of organization and administration»
Orientation of educational program	educational and professional
Master's program	«Management on the market of goods and services», «Quality Management», «Management in the sphere of economic competition», «Management of enterprise strategic development», «Management of cooperative groups»
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	master degree in management of organization and administration, manager (administrator) of an organization

I. TRAINING PROCESS SCHEDULE
training specialists second (master's) level of higher education in 2017 entry
specialty 073 «Management» of educational program «Management of organization and administration»

Year of study	2017 year												2018 year																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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Legend:

	-	theoretical training
:	-	examination session
-	-	vacation
X	-	scientific-practical training
II	-	preparation of master's work
//	-	state certification (defense of master's thesis)

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work			Practical training		Practical training	Distribution of hours per week within an acad. year and semesters		
		Semesters			Including			Total	Lectures	Laboratory classes	Seminars	Number of weeks in semester							
		Hours	Credits	Exam	Test	Course paper	1					2	3	15	15	0			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
1. STANDARD ACADEMIC DISCIPLINES																			
1.	Management of organization	120	4	1			45	15		30	75			3					
2.	Psychology of management and conflict management	120	4	1		1	45	15		30	75			3					
3.	Contract law	120	4	1			45	15		30	75			3					
4.	Corporate management	120	4	2			45	15		30	75				3				
5.	Project management	120	4	2	2		45	15		30	75				3				
6.	Investment management	120	4	2			30	15		15	90				2				
7.	Quality management	120	4	2	2		30	15		15	90				2				
8.	Change management	120	4		2		30	15		15	90				2				
9.	Information systems and technologies in organization management	120	4		2		30	15	15		90				2				
Total		1080	36	6	3	2	345	135	15	195	735	0	0	9	14	0	0		
2. ELECTIVE ACADEMIC DISCIPLINES																			
2.1. Disciplines offered by University																			
1.	Agricultural policy	120	4	1			45	15		30	75			3					
2.	Methodology and organization of scientific research with the principles of intellectual property	90	3		1		45	30		15	45			3					
3.	Business foreign language	150	5		1		45			45	105			3					
Total		360	12	1	2	0	135	45	0	90	225	0	0	9	0	0	0		
2.2. Disciplines offered by students																			
2.2.1. Free chose disciplines																			
1.	Asset management	120	4		2		30	15		15	90				2				
2.	Business protocol and negotiating	120	4		2		30	15		15	90				2				
3.	Business game (Business management)	120	4		2		30	15		15	90				2				
4.	Tax system	120	4		2		30	15		15	90				2				

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
5.	Managerial Accounting	120	4		2		30	15		15	90				2	
6.	Banking	120	4		2		30	15		15	90				2	
7.	Financial management	120	4		2		30	15		15	90				2	
8.	Marketing management	120	4		2		30	15		15	90				2	
9.	International management	120	4		2		30	15		15	90				2	
10.	Public administration	120	4		2		30	15		15	90				2	
Total		240	8		2		60	30	0	30	180				4	
Master's program «Management on the market of goods and services»																
1.	Management of enterprise activity on the market of goods and services	120	4	3			35	18		17	85					5
2.	Management of enterprise potential	120	4	3			35	18		17	85					5
3.	Management of marketing communications and competitiveness	120	4		3		28	14		14	92					4
4.	Market infrastructure management	120	4		3		28	14		14	92					4
Total		480	16	2	2		126	64		62	354					18
Master's program «Quality Management»																
1.	Complex system of quality management of products and services	120	4	3			35	18		17	85					5
2.	Quality potential management	120	4	3			35	18		17	85					5
3.	Information management of labour and product quality	120	4		3		28	14		14	92					4
4.	Corporate quality management	120	4		3		28	14		14	92					4
Total		480	16	2	2		126	64		62	354					18
Master's program «Management in the sphere of economic competition»																
1.	Management of enterprise competitiveness	120	4	3			35	18		17	85					5
2.	Management of enterprise potential	120	4	3			35	18		17	85					5
3.	Risk and economic security management	120	4		3		28	14		14	92					4
4.	Business ethics and corporate social responsibility	120	4		3		28	14		14	92					4
Total		480	16	2	2		126	64		62	354					18
Master's program «Management of enterprise strategic development»																
1.	Management of enterprise organizational development	120	4	3			35	18		17	85					5
2.	Crisis management	120	4	3			35	18		17	85					5
3.	Diagnostics in management system	120	4		3		28	14		14	92					4
4.	Management of enterprise innovation activity	120	4		3		28	14		14	92					4
Total		480	16	2	2		126	64		62	354					18
Master's program «Management of cooperative groups»																
1.	Management of cooperative activity	120	4	3			35	18		17	85					5
2.	Environment for cooperative business development	120	4	3			35	18		17	85					5
3.	Management of cooperative members and customers interaction	120	4		3		28	14		14	92					4
4.	Organizational support of cooperative activity	120	4		3		28	14		14	92					4
Total		480	16	2	2		126	64		62	354					18

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Total for elective part		990	36	3	6	0	321	139	0	182	759	0	0	9	4	18
3. OTHER FORMS OF TRAINING																
Master's thesis preparation and defense		300	10													
Practical training		240	8										240			
Course work						2										
Tests				9												
Exams					9											
Total for educational program		2700	90				666				1494		240	18	18	18

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standart academic disciplines	1080	36	40
2. Elective academic disciplines	1080	36	40
2.1. Disciplines offered by University	360	12	13
2.2. Disciplines offered by students	720	24	27
3. Other forms of training	540	18	20
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	30	4	4	4	-	10	52
2	7	1	2	4	1	-	15
Total	37	5	6	8	1	10	67

V. PRACTICAL TRAINING

Nº	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Production practice	2	180	6	4
2	Pre-diploma practice	3	60	2	2

VI. COURSE PAPER AND PROJECTS

Nº	Discipline	Hours	Credits	Course paper	Course projects
1	Psychology of management and conflict management	30	1		+
2	Project management	30	1		+

VII. STATE CERTIFICATION

N	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	300	10	8

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE**

FACULTY OF AGRICULTURAL MANAGEMENT

**CURRICULUM
of training specialists in 2017 academic year**

Level of higher education	the second (Master)
Branch of knowledge	07 «Management and Administration»
Specialty	073 « Management »
Educational program	«Management of foreign economic activity»
Orientation of educational program	educational and professional
Master's program	«International business management», «International commercial activity»
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	master degree in management of foreign economic activity, manager (administrator) of foreign economic activity

training specialists second (master's) level of higher education in 2017 entry specialty 073 «Management» of educational program «Management of foreign economic activity»

Legend:

X	- scientific-practical training
II	- preparation of master's work
//	- state certification (defense of master's thesis)

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work			Practical training		Practical training practice	Distribution of hours per week within an acad. year and semesters		
		Hours	Credits	Semesters			Total	Including			Individual work			practical training			1 year semester 2 year semester 3		
				Exam	Test	Course paper		Lectures	Laboratory classes	Seminars									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17			
1. STANDARD ACADEMIC DISCIPLINES																			
	International private law	120	4		2		30	15		15	90					2			
	Management of FEA	210	7	2	1	2	75	30		45	135				3	2			
	International marketing	150	5	1			45	15		30	105				3				
	Investment management	120	4	1			45	15		30	75				3				
	Information systems and technologies in FEA management	120	4		2		30	15	15		90					2			
	International credit-settlement and currency transactions	120	4	2			45	15		30	75					3			
	Organization and techniques of FEO	120	4	1		1	45	15		30	75				3				
	International economic activity	120	4		2		30	15		15	90					2			
	Total	1080	36	5	4	2	345	135	15	195	735	0	0	12	11	0			
2. ELECTIVE ACADEMIC DISCIPLINES																			
2.1. Disciplines offered by University																			
1.	Agricultural policy	120	4	2			45	15		30	75					3			
2.	Methodology and organization of scientific research with the principles of intellectual property	90	3		1		45	30		15	45				3				
3.	Business foreign language	150	5		1		45			45	105				3				
	Total	360	12	1	2	0	135	45	0	90	225	0	0	6	3				
2.2. Disciplines offered by students																			
2.2.1. Free chose disciplines																			
1.	Business game (Business management)	120	4		2		30	15		15	90					2			
2.	Assets management	120	4		2		30	15		15	90					2			
3.	Tax system	120	4		2		30	15		15	90					2			
4.	Managerial Accounting	120	4		2		30	15		15	90					2			
5.	Banking	120	4		2		30	15		15	90					2			

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
6.	Financial management	120	4		2		30	15		15	90				2	
7.	Marketing management	120	4		2		30	15		15	90				2	
8.	Corporate management	120	4		2		30	15		15	90				2	
9.	Psychology of management and conflict management	120	4		2		30	15		15	90				2	
Total		240	8		2		60	30	0	30	180				4	
Master's program «International business management»																
1.	International business	120	4	3			28	14		14	92					4
2.	Strategies in international business	90	3	3			28	14		14	62					4
3.	International customs regulations	90	3	3			28	14		14	62					4
4.	World agriculture and food resources	90	3		3		21	7		14	69					3
5.	Business protocol and negotiating	90	3		3		21	7		14	69					3
Total		480	16				126	56		70	354	0	0	0	0	18
Master's program «International commercial activity»																
1.	Risk management in international commercial activity	90	3	3			28	14		14	62					4
2.	International commercial activity	120	4		3		28	14		14	92					4
3.	Logistics in FEA	90	3		3		28	14		14	62					4
4.	World agriculture and food resources	90	3		3		21	7		14	69					3
5.	Business protocol and negotiating	90	3		3		21	7		14	69					3
Total		480	16				126	56		70	354	0	0	0	0	18
Total for elective part		1080	36	3	6	0	321	132	0	189	759	0	0	6	7	18
3. OTHER FORMS OF TRAINING																
Master's thesis preparation and defense																
Practical training		300	10													
Course work		240	8										240			
Tests						2										
Exams					10											
Total for educational program		2700	90		8								240	18	18	18

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standart academic disciplines	1080	36	40
2. Elective academic disciplines	1080	36	40
2.1. Disciplines offered by University	360	12	13
2.2. Disciplines offered by students	720	24	27
3. Other forms of training	540	18	20
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	30	4	4	4	-	10	52
2	7	1	2	4	1	-	15
Total	37	5	6	8	1	10	67

V. PRACTICAL TRAINING

Nº	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Production practice	2	180	6	4
2	Pre-diploma practice	3	60	2	2

VI. COURSE PAPER AND PROJECTS

Nº	Discipline	Hours	Credits	Course paper	Course projects
1	Management of FEA	30	1		+
2	Organization and techniques of FEO	30	1		+

VII. STATE CERTIFICATION

N	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	300	10	8

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE**

FACULTY OF AGRICULTURAL MANAGEMENT

**CURRICULUM
of training specialists in 2017 academic year**

Level of higher education	the second (Master)
Branch of knowledge	07 «Management and Administration»
Specialty	073 « Management »
Educational program	«Administrative management»
Orientation of educational program	educational and professional
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	manager (administrator) in administrative management

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work			Practical training		Distribution of hours per week within an acad. year and semesters		
		Hours	Credits	Semesters			Total	Including			practical training	manufacturing practice	1 year semester					
				Exam	Test	Course paper		Lectures	Laboratory classes	Seminars			1	2	3			
																Number of weeks in semester		
		3	4	5	6	7	8	9	10	11	12	13	14	15	15	16	17	
1. STANDARD ACADEMIC DISCIPLINES																		
1.	Business-management	150	5	1			60	30		30	90				4			
2.	Economics of production	150	5	1		1	60	30		30	90				4			
3.	Analysis and finances of an enterprise	150	5	1			60	30		30	90				4			
4.	Economic information science	90	3		1		30		30		60				2			
5.	Methodology of social empirical research	90	3		1		30	15		15	60				2			
6.	Planning and organization of an enterprise	150	5	2		2	60	30		30	90					4		
7.	Strategies of international agricultural marketing	150	5	2			60	30		30	90					4		
8.	Project management and evaluation	150	5	3			28	14		14	122						4	
9.	Quantitative methods of decision making	90	3		3		28	14		14	62						4	
10.	Strategic management	90	3	3			28	14		14	62						4	
Total		1260	42	7	5	2	444	207	30	207	816				16	8	12	
2. ELECTIVE ACADEMIC DISCIPLINES																		
2.1. Disciplines offered by University																		
1	Agricultural policy	150	5	2			60	30		30	90					4		
2	Methodology of scientific research	90	3		3		28	14		14	62						4	
3	Business foreign language	150	5	2	1		75			75	75				2	3		
Total		390	13	2	2	0	163	44	0	119	227				2	7	4	
2.2. Disciplines offered by students																		
1.	Methods of administrative activity	90	3		1		30	15		15	60				2			
2.	Management of enterprise activities	90	3		1		30	15		15	60				2			
3.	Management consulting	150	5		2		45	15		30	105					3		
4.	Legal principles of administrative activity	90	3		2		30	15		15	60					2		
5.	International agribusiness	90	3		2		30	15		15	60					2		
6.	Chief administrative officer	90	3		3		21	7		14	69						3	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
7.	Automated accounting system	90	3		3		21	7		14	69					3
8.	Human resources management	90	3		3		21	7		14	69					3
Total		690	23	0	7	0	207	89	0	118	483			4	7	6
Total for elective part		1080	36	2	9	0	370	133	0	237	710			6	14	10
3. OTHER FORMS OF TRAINING																
Master's thesis preparation and defense		180	6													
Practical training		180	6										240			
Course work						2										
Tests					14											
Exams				9												
Total for educational program		2700	90				814	340	30	444	1526			22	22	22

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standart academic disciplines	1260	42,0	46,7
2. Elective academic disciplines	1080	36, 0	40,0
2.1. Disciplines offered by University	390	13,0	14,4
2.2. Disciplines offered by students	690	23,0	25,6
3. Other forms of training	360	14,0	13,3
Total for educational program	2700	90, 0	100,0

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	30	4	8	-	-	10	52
2	7	1	-	6	1	-	15
Total	37	5	8	6	1	10	67

V. PRACTICAL TRAINING

Nº	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Production practice	1,2	180	6	8
2	Pre-diploma practice	-	-	-	-

VI. COURSE PAPER AND PROJECTS

Nº	Discipline	Hours	Credits	Course paper	Course projects
1	Economics of production	30	1		+
2	Planning and organization of an enterprise	30	1		+

VII. STATE CERTIFICATION

N	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	300	10	8

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE**

FACULTY OF AGRICULTURAL MANAGEMENT

**CURRICULUM
of training specialists in 2017 academic year**

Level of higher education	the second (Master)
Branch of knowledge	07 «Management and Administration»
Specialty	073 « Management »
Educational program	«Management of investment activity and international projects»
Orientation of educational program	educational and professional
Master's program	«Management of investment activity», «Management of international projects»
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	Specialist of projects and programs management in material (intangible) production; head of project and program in material (intangible) production

I. TRAINING PROCESS SCHEDULE

training specialists second (master's) level of higher education in 2017 entry specialty 073 «Management» of educational program «Management of investment activity and international projects»

[illegible]

Legend:

-	theoretical training	X	-	scientific-practical training
-	examination session	II	-	preparation of master's work
-	vacation	//	-	state certification (defense of master's thesis)

X	III	//

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work				Practical training		Distribution of hours per week within an acad. year and semesters	
		Semesters			Including	Lectures	Laboratory classes	Seminars		Number of weeks in semester		15		15		0		
		Exam		Test														Course paper
		Hours	Credits	3	4	5	6	7	8	9	10	11	12	13	14	15		16
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
1. STANDARD ACADEMIC DISCIPLINES																		
10.	Investment management	120	4	1			45	15		30	75			3				
11.	Macroeconomic analysis and investment strategy	120	4		1		30	15		15	90			2				
12.	Controlling innovations	120	4	2			30	15		15	90				2			
13.	International programs and grants	120	4	1			45	15		30	75			3				
14.	Project approach in business management	120	4	2		2	45	15		30	75				3			
15.	Financial sources of business projects	120	4		2		45	15		30	75				3			
16.	Management of project and project risks	120	4	1		1	45	15		30	75			3				
17.	Marketing activities management	120	4		2		45	15		30	75				3			
18.	Creative technologies in HR management	120	4		1		45	15		30	75			3				
Total		1080	36	5	4	2	375	135		240	705			14	11			
2. ELECTIVE ACADEMIC DISCIPLINES																		
2.1. Disciplines offered by University																		
4.	Agricultural policy	90	3		1		30	15		15	60			2				
5.	Methodology and organization of scientific research with the principles of intellectual property	90	3		1		30	15		15	60			2				
6.	Business foreign language	180	6	2	1		30			30	120			2	2			
Total		360	12	1	3		90	30		60	240			6	2			
2.2. Disciplines offered by students																		
Master's program «Social and Pedagogical Activity in Rural Areas»																		
18.	Changes management	120	4		2		30	15		15	90				2			
19.	Business process management	120	4		2		30	15		15	90				2			

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
20.	Information systems and technologies in management	120	4		2		30		30		90				2	
21.	Methodology of economic research	120	4		2		30	15		15	90				2	
22.	Modern quality management systems	120	4		2		30	15		15	90				2	
23.	Crisis management	120	4		2		30	15		15	90				2	
24.	Social investment	120	4		2		30	15		15	90				2	
Total		240	8		2		60	15	30	15	180				4	
Master's program «Management of investment activity»																
1	Management of international projects and innovations	180	6	2			60	30		30	120				4	
2	Coaching	120	4		2		45	15		30	75				3	
3	Business game "Investment policy of agro-industrial enterprises"	180	6	1			60	30		30	120			4		
Total		480	16	2	1		165	75		90	315			4	7	
Master's program «Management of international projects»																
1	Business game "Strategic project management"	180	4	2			60	15		45	120				4	
2	Project management of Start-Up	120	3		2		45	15		30	75				3	
3	Forming, management and development of a project team	180	6	1			60	30		30	120			4		
Total		480	16	2	1		165	75		90	315			4	7	
Total for elective part		1080	36	3	6		315	120	30	165	765			4	13	
3. OTHER FORMS OF TRAINING																
Master's thesis preparation and defense																
Practical training		300	10													
Course work		240	8													
Tests				8												
Exams					10											
Total for educational program		2700	90				690	270		420	1470			24	24	

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standart academic disciplines	1080	36	40
2. Elective academic disciplines	1080	36	40
2.1. Disciplines offered by University	360	12	13
2.2. Disciplines offered by students	720	24	27
3. Other forms of training	540	18	20
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	30	5	0	3	0	14	52
2	0	0	9	5	1	0	15
Total	30	5	9	8	1	14	67

V. PRACTICAL TRAINING

Nº	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Production practice	3	180	6	7
2	Pre-diploma practice	3	60	2	2

VI. COURSE PAPER AND PROJECTS

Nº	Discipline	Hours	Credits	Course paper	Course projects
1	Project approach in business management	30	1		+
2	Management of project and project risks	30	1		+

VII. STATE CERTIFICATION

N	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	300	10	8

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE**

FACULTY OF AGRICULTURAL MANAGEMENT

**CURRICULUM
of training specialists in 2017 academic year**

Level of higher education	the second (Master)
Branch of knowledge	07 «Management and Administration»
Specialty	073 «Management»
Educational program	«Management of investment activity and international projects»
Orientation of educational program	educational and research
Master's program	«Management of investment activity»
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	head of project and program in material (intangible) production

specialty 073 «Management of investment activity and international projects»

[illegible]

X	- scientific-practical training
I	- pedagogical (assistance) training
A	- research practice (research (scientific) component)
//	- state certification (defence of master's theses)

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work			Practical training		Distribution of hours per week within an acad. year and semesters		
		Hours	Credits	Semesters			Total	Including		10	11	12	13	14	15	16	17	
				Exam	Test	Course paper		Lectures	Laboratory classes									Seminars

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1. STANDARD ACADEMIC DISCIPLINES																
1.	Investment management	120	4	1			45	15		30	75			3		
2.	Macroeconomic analysis and investment strategy	120	4		3		30	15		15	90					2
3.	Controlling innovations	120	4	2			30	15		15	90				2	
4.	International programs and grants	120	4	1			45	15		30	75			3		
5.	Project approach in business management	120	4	2		2	30	15		30	75				3	
6.	Financial sources of business projects	120	4		2		30	15		30	75				3	
7.	Management of project and project risks	120	4	1		1	45	15		30	75			3		
8.	Marketing activities management	120	4		2		30	15		15	90				2	
9.	Creative technologies in HR management	120	4		1		45	15		30	75			3		
Total		1080	36	5	4	2	330	135		195	750			12	10	2
2. ELECTIVE ACADEMIC DISCIPLINES																
2.1. Disciplines offered by University																
1.	Agricultural policy	90	3		1		30	15		15	60			2		
2.	Methodology and organization of scientific research with the principles of intellectual property	90	3		1		30	15		15	60			2		
3.	Business foreign language	180	6	2	1		30			30	120			2	2	
Total		360	12	1	3		90	30		60	240			6	2	
2.2. Disciplines offered by students																
Free choice disciplines																
1.	Changes management	120	4		2		30	15		15	90				2	
2.	Management of organizations	120	4		2		30	15		15	90				2	

3.	Information systems and technologies in management	120	4			2		30		90				2	
4.	Psychology of management and conflictology	120	4			2		30	15	90				2	
5.	Modern quality management systems	120	4			2		30	15	90				2	
6.	Risk Management	120	4			2		30	15	90				2	
7.	Social investment	120	4			2		30	15	90				2	
Total		240	8			2		60	15	30	15	180		4	
Master's program «Management of investment activity»															
1.	Business process reengineering	90	3			3		30	15		15	60			2
2.	Management of international projects in agribusiness	90	3			2		30	15		15	60		2	
3.	Business game "Project management of Start-Up»	90	3	3				45	15		30	75			3
4.	Management of cost and structure capital	90	3			3		30	15		15	60			2
5.	Business-modeling	120	4	3			3	45	15		30	75			3
6.	Forming, management and development of a project team	90	3			3		30	15		15	60			2
7.	Crisis management	90	3	3				30	15		15	60			2
8.	Philosophy of innovations	90	3	3				30	15		15	60			2
Total		750	25	4	4	4	1	270	120		150	480		2	16
Total for elective part		1350	45	5	9	1	1	450	180		270	900	6	8	16
3. OTHER FORMS OF TRAINING															
Master's thesis preparation and defense		300	16												
Research and production practice		180	6												
Pre-diploma practice		120	4												
Pedagogical practice		90	3												
Research practice		300	10												
Course work							3								
Tests				13											
Exams						10									
Total for educational program		3600	120					780	315		465	1650	18	18	18

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standart academic disciplines	1080	36	30
2. Elective academic disciplines	1350	45	38
2.1. Disciplines offered by University	360	12	10
2.2. Disciplines offered by students	990	25	28
3. Other forms of training	1170	39	32
Total for educational program	3600	120	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	30	4	4	4	0	10	52
2	15	2	13	6	1	5	42
Total	35	6	17	10	1	15	94

V. PRACTICAL TRAINING

Nº	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Research and production practice	2	180	6	4
2	Pre-diploma practice	4	120	4	3
3	Pedagogical practice	4	90	3	2
4	Research practice	4	300	10	8

VI. COURSE PAPER AND PROJECTS

Nº	Discipline	Hours	Credits	Course paper	Course projects
1	Project approach in business management	30	1		+
2	Management of project and project risks	30	1		+
3	Business-modeling	30	1		+

VII. STATE CERTIFICATION

N	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	480	16	10

CURRICULUM of training specialists in 2017 academic year

Level of higher education	the second (Master)
Branch of knowledge	05 «Social and behavioral sciences»
Specialty	051 «Economy»
Educational program	«Economic Cybernetics»
Orientation of educational program	educational and professional
Master's program	«Risk assessment in agriculture», «Ecological and Economic Modeling»
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	Master in economic cybernetics

training specialists second (master's) level of higher education in 2017 entry specialty «Economy» of educational program «Economic Cybernetics»

Legend:

X	II	//

- scientific-practical training
- preparation of master's work
- state certification (defense of

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work			Practical training		Distribution of hours per week within an acad. year and semesters
		Semesters			Including			practical training			manufacturing practice					
		Hours	Credits	Exam	Test	Course paper	Total		Lectures	Laboratory classes	Seminars	Number of weeks in semester				
							1	2				3	15	15	0	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1. STANDARD ACADEMIC DISCIPLINES																
1	Business Process Modeling	120	4	1		1	60	30	30		60			4		
2	Global Economy	120	4	1			45	15	30		75			3		
3	Developing of Web applications	120	4		2		45	15	30		75			3		
4	Applied Econometrics	120	4	1			60	30	30		60			4		
5	Intellectual Data Analysis	120	4	2			45	15	30		75			3		
6	Modeling and Forecasting in environmental management	120	4	2			45	15	30		75			3		
Total		720	24	4	1	1	300	120	180	0	420	0	0	14	6	0
2. ELECTIVE ACADEMIC DISCIPLINES																
2.1. Disciplines offered by University																
1	Business Foreign Language	90	3		1		30			30	60			2		
2	Agrarian Policy	90	3		1		30	15		15	60			2		
3	Global Information Resources	90	3		2		30	15	15		60			2		
4	Methodology and organization of research on the basics of intellectual property	120	4	1			45	15	30		75			3		
Total		390	13	1	3	0	135	45	45	45	255	0	0	7	2	
2.2. Disciplines offered by students																
Master's program "Risk assessment in agriculture"																
1	Electronic Commerce	120	4		1		45	15	30		75			3		
2	Big Data Analytics	90	3		2		45	15	30		45			3		
3	Modeling with R	120	4	2			45	15	30		75			3		
4	Innovation agriculture risk	120	4		2		45	15	30	0	75			3		
5	Financial management models	120	4		2		45	15	30	0	75			3		
6	Risk management models	120	4	1	4	2	60	30	30	0	60			4		
Total		690	23	1	4	2	285	105	180	0	405	0	0	3	16	0

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Master's program "Ecological and Economic Modeling"																
1	Electronic Commerce	120	4		1		45	15	30		75			3		
2	Big Data Analytics	90	3		2		45	15	30		45				3	
3	Modeling with R	120	4	2			45	15	30		75				3	
4	Ecological and Economic Risks	120	4		2		45	15	30	0	75				3	
5	Models of environmental management	120	4		2		60	30	30	0	60				4	
6	Ecological and Economic Modeling	120	4	1		2	45	15	30	0	75				3	
Total (Disciplines offered by students)		690	23	1	4	2	285	105	180	0	405	0	0	3	16	0
Total for elective part		1080	36	2	7	2	420	150	225	45	660	0	0	10	18	
3. OTHER FORMS OF TRAINING																
State examination		60	2													
Master's thesis preparation and defense		300	10													
Practical training		240	8													
Pregraduation practice		300	10													
Course work						2										
Tests					8											
Exams				6												
Total for educational program		2700	90	6	8	2	720	270	405	45	1080	240	660	24	24	0

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standart academic disciplines	720	24	27
2. Elective academic disciplines	1080	36	40
2.1. Disciplines offered by University	390	13	14
2.2. Disciplines offered by students	690	23	26
3. Other forms of training	900	30	33
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	30	5	5			12	52
2			10	4	1		15
Total	30	5	15	4	1	12	67

V. PRACTICAL TRAINING

Nº	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Practical training	2	240	8	5
2	Pregraduation practice	3	660	22	10

VI. COURSE PAPER AND PROJECTS

Nº	Discipline	Hours	Credits	Course paper	Course projects
1	Business Process Modeling	30	1		CP
2	Risk management models (Ecological and Economic Modeling)	30	1		CP

VII. STATE CERTIFICATION

N	Attestations	Hours	Credits	Amount of weeks
1	State examination	60	2	1

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE**

FACULTY OF INFORMATIONAL TECHNOLOGY

**CURRICULUM
of training specialists in 2017 academic year**

Level of higher education
Branch of knowledge
Specialty
Educational program
Orientation of educational program
Master's program

the second (Master)
12 «Information technology»
122 «Computer Science»
«Information managing systems and technologies»
educational and professional
«Data science», «Information Managing Systems and Technologies
in agro-industrial and environmental field»

Form of training
Term of study (Credits)
On the basis of
Educational degree
Qualification

full-time
1,5 year (90)
the first level of higher education «Bachelor»
«Master»
Analyst of computer systems, researcher (computing systems)

training specialists second (master's) level of higher education in 2017 entry

specialty «Computer science» of educational program «Information managing systems and technologies»

[illegible]

	-	theoretical training
:	-	examination session
-	-	vacation

X	II	//

- scientific-practical training
- preparation of master's work
- state certification (defense of master's thesis)

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)			Individual work		Practical training		Distribution of hours per week within an acad. year and semesters		
		Hours	Credits	Semesters			Total	Including		12	13	14	15	16	17	0
				Exam	Test	Course paper		Lectures	Laboratory classes							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Modelling and forecast in environmental sphere	120	4		2	2	45	15	30		75				3	
2	Object modelling and designing of complex systems	120	4	1			60	30	30		60			4		
3	Organization of data warehousing	120	4	1		1	60	30	30		60			4		
4	Development of WEB applications	120	4	2			45	15	30		75				3	
5	Safety and reliability of computer systems	120	4	2			45	15	30		75				3	
6	Data Mining Technology	120	4	2			45	15	30		75				3	
Total		720	24	4	2	0	300	120	180	0	420	0	0	8	12	0
2. ELECTIVE ACADEMIC DISCIPLINES																
2.1. Disciplines offered by University																
1	Business Foreign Language	90	3		1		30				60			2		
2	Agrarian policy	90	3		1		30	15			60			2		
3	Methodology and organization of research on the basics of intellectual property	120	4	1			45	15	30		75			3		
4	Special sections of mathematics	120	4		1		45	15	30		75			3		
Total		420	14	1	3	0	150	45	60	45	270	0	0	10	0	0
2.2. Disciplines offered by students																
Master's program "Data science"																
1	RS and technology processing geospatial data	120	4		1		45	15	30		75			3		
2	Intellectual environmental monitoring systems	120	4	2			45	15	30		75				3	
3	Principles of distributed and network programming	120	4		2		45	15	30		75			3		
4	Patterns of object-oriented design and programming	90	3		2		45	15	30		45				3	
5	Methods of expert systems	90	3	2			45	15	30		45				3	
6	Big Data Technologies	120	4		2		45	15	30		75				3	
Total		660	22	2	2	0	270	90	180	0	390	0	0	6	12	0

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Master's program "Information Managing Systems in agro-industrial field"																
1	RS and technology processing geospatial data	120	4	2	1		45	15	30		75			3		
2	Intellectual environmental monitoring systems	120	4	2			45	15	30		75				3	
3	Principles of distributed and network programming	120	4		2		45	15	30		75			3		
4	Global Information Resources	90	3		2		45	15	30		45				3	
5	Information systems management	90	3	2			45	15	30		45				3	
6	Robotic control systems	120	4		2		45	15	30		75				3	
Total (Disciplines offered by students)		660	22	2	2	4	0	270	90	180	0	390	0	6	12	0
3. OTHER FORMS OF TRAINING																
State examination		60	2													
Master's thesis preparation and defense		360	12													
Practical training		240	8													
Pregraduation practice		240	8													
Course work						2										
Tests					8											
Exams				7												
Total for educational program		2700	90	7	8	2	720	255	420	45	1080	240	660	24	24	0

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standart academic disciplines	720	24	27
2. Elective academic disciplines	1080	36	40
2.1. Disciplines offered by University	390	13	14
2.2. Disciplines offered by students	690	23	26
3. Other forms of training	900	30	33
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	30	5	5			12	52
2			10	4	1		15
Total	30	5	15	4	1	12	67

V. PRACTICAL TRAINING

Nº	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Practical training	2	240	8	5
2	Pregraduation practice	3	660	22	10

VI. COURSE PAPER AND PROJECTS

Nº	Discipline	Hours	Credits	Course paper	Course projects
1	Modelling and forecast in environmental sphere	30	1		CP
2	Organization of data warehousing	30	1		CP

VII. STATE CERTIFICATION

N	Attestations	Hours	Credits	Amount of weeks
2	State examination	60	2	1

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE**

FACULTY OF INFORMATIONAL TECHNOLOGY

**CURRICULUM
of training specialists in 2017 academic year**

Level of higher education	the second (Master)
Branch of knowledge	12 «Information technology»
Specialty	122 «Computer science»
Educational program	«Computer ecological and economic monitoring»
Orientation of educational program	educational and professional
Master's program	«Computer monitoring environmental and economic processes»
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	Analyst of computer systems, researcher (computing systems)

specialty «Computer Science» of educational program «Computer ecological and economic monitoring»

-	theoretical training	X	-	scientific-practical training
-	examination session	II	-	preparation of master's work
-	vacation	//	-	state certification (defense of master's thesis)

Legend:

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work		Practical training		Distribution of hours per week within an acad. year and semesters			
		Hours	Credits	Semesters			Total	Including			12	13	14	practice				
				Exam	Test	Course paper		Lectures	Laboratory classes	Seminars				Number of weeks in semester				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	15	16	17	
1. STANDARD ACADEMIC DISCIPLINES																		
1	Modelling and forecast in environmental sphere	120	4		2	2	2	45	15	30		75					3	
2	Object modelling and designing of complex systems	120	4	1				60	30	30		60			4			
3	Organization of data warehousing	120	4	1		1		60	30	30		60			4			
4	Development of WEB applications	120	4	2				45	15	30		75				3		
5	Special sections of mathematics	120	4	1				45	15	30		75			3			
6	IT monitoring of environmental and socio-economic processes	120	4		1			45	15	30		75				3		
		720	24	4	3	2	2	300	120	180		420	0	0	14	6		0
2. ELECTIVE ACADEMIC DISCIPLINES																		
2.1. Disciplines offered by University																		
1	Business Foreign Language	90	3		1			30				60			2			
2	Agrarian policy	90	3		1			30	15			60			2			
3	Methodology and organization of research on the basics of intellectual property	120	4		1			45	15	30		75			3			
4	Global Information Resources	90	3		2			45	15	30		45				3		
Total		390	13	0	4	0	0	150	45	60	45	240	0	0	7	3		0
2.2. Disciplines offered by students																		
Master's program "Computer monitoring environmental and economic processes"																		
1	Data Mining Technology	120	4	2				45	15	30		75					3	
2	Hardware and software for collecting and processing environmental information	90	3	2				45	15	30		45					3	
3	Intellectual environmental monitoring systems	120	4	2				45	15	30		75					3	
4	Robot-technic Systems of Management.	120	4		2			45	15	30		75					3	
5	RS and technology processing geospatial data	120	4		1			45	15	30		75			3			
6	Simulation modeling of environmental processes	120	4		2			45	15	30		75				3		
Total (Disciplines offered by students)		690	23	3	3	0	0	270	90	180	0	420	0	0	3	15		0

1	2		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Total for elective part			1080	36	7	9	0	420	135	240	45	660	0	0	10	18	0
3. OTHER FORMS OF TRAINING																	
State examination			60	2													
Master's thesis preparation and defense			240	8													
Practical training			240	8													
Pregraduation practice			360	12													
Course work							2										
Tests						9											
Exams					7												
Total for educational program			2700	90	7	9	2	720	255	420	45	1080	240	660	24	24	0

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standart academic disciplines	720	24	27
2. Elective academic disciplines	1080	36	40
2.1. Disciplines offered by University	390	13	14
2.2. Disciplines offered by students	690	23	26
3. Other forms of training	900	30	33
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	30	5	5			12	52
2			10	4	1		15
Total	30	5	15	4	1	12	67

V. PRACTICAL TRAINING

Nº	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Practical training	2	240	8	5
2	Pregraduation practice	3	660	22	10

VI. COURSE PAPER AND PROJECTS

Nº	Discipline	Hours	Credits	Course paper	Course projects
1	Modelling and forecast in environmental sphere	30	1		CP
2	Organization of data warehousing	30	1		CP

VII. STATE CERTIFICATION

N	Attestations	Hours	Credits	Amount of weeks
2	State examination	60	2	1

**CURRICULUM
of training specialists in 2017 academic year**

Level of higher education	the second (Master)
Branch of knowledge	23 «Social Work»
Specialty	231 «Social Work»
Educational program	«Social Work»
Orientation of educational program	educational and professional
Master's program	«Social and Pedagogical Activity in Rural Areas»
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	Social Educator

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work		Practical training		Distribution of hours per week within an acad. year and semesters		
		Hours	Credits	Semesters			Total	Including			12	13	14	1 year semester			
				Exam	Test	Course paper		Lectures	Laboratory classes	Seminars				1	2	3	
1	2	3	4	5	6	7	8	9	10	11	12	15	16	17	0		
1. STANDARD ACADEMIC DISCIPLINES																	
1	Organization of Social Services Activity	90	3	1		1	30	15		15	60			2			
2	Social Youth Policy of Ukraine and Sociology of Rural Youth	90	3		2		30	15		15	60			2			
3	Social Work in Ukraine	180	6	2		2	60	30		30	120			4			
4	Legislative Framework for Socio-Pedagogical Activity and Fundamentals of Intellectual Property	90	3		1		30	15		15	60			2			
5	Family Social Support	90	3	2			30	15		15	60			2			
6	Psychological and Pedagogical Therapy	90	3		2		30	15		15	60			2			
7	Pedagogy of Higher School	270	9	1			90	45		45	180			6			
8	Management of Social and Pedagogical Systems and Management of Social and Pedagogical Work	270	9		2		90	45		45	180			6			
Total		1170	39	4	4	2	390	195	0	195	780	0	0	12	14	0	
2. ELECTIVE ACADEMIC DISCIPLINES																	
2.1. Disciplines offered by University																	
1	Social policy	90	3		1		30	15		15	60			2			
2	Methodology and Organization of Scientific Research	90	3		2		45	15		30	45			3			
3	Business Foreign Language	150	5	1			60			60	90			4			
Total		330	11	1	2	0	135	30	0	105	195	0	0	6	3	0	
2.2. Disciplines offered by students																	
Master's program «Social and Pedagogical Activity in Rural Areas»																	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Organization of Work with Different Social Groups	180	6	2			60	30		30	120				4	
	Practical and social work in laboratories															
	Innovative technologies in social work															
2	Culture of Speech and Business Communication	90	3	1			30	15		15	60			2		
	Technologies of designing and social work estimation															
	Examination of psychologic and sociological tools															
3	Legal Framework for Educational Institution	180	6	2	1		60	30	15	15	120			2	2	
	Farming policy															
4	Advertising and Information Technologies in the Social Sphere	90	3		1		30	15		15	60			2		
	Information technologies in social and pedagogic researches															
	Manager of Educational Institution															
5	Computer Science	90	3		2		15	7		8	75				1	
Total		540	18	2	4	0	165	82	15	68	375	0	0	6	7	0
Total for elective part		870	29	3	6	0	300	112	15	173	570	0	0	12	10	0
3. OTHER FORMS OF TRAINING																
State examination		30	1													
Master's thesis preparation and defense		390	13													
Practical training		240	8									60	180			
Course work						2								1	1	0
Tests					10									5	5	0
Exams				7										3	4	0
Total for educational program		2700	90				690	307	15	368	1350	60	180	24	24	0

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standard academic disciplines	1170	39	45
2. Elective academic disciplines	870	29	32
2.1. Disciplines offered by University	330	11	12
2.2. Disciplines offered by students	540	18	20
3. Other forms of training	660	22	24
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	30	5	0	3	0	14	52
2	0	0	8	6	1	-	15
Total	30	5	8	9	1	14	67

V. PRACTICAL TRAINING

Nº	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Academic Practice	3	60	2	1
2	Production Practice	3	180	5	6

VI. COURSE PAPER AND PROJECTS

Nº	Discipline	Hours	Credits	Course paper	Course projects
1	Organization of Social Services Activity	30	1	+	
2	Social Work in Ukraine	30	1	+	

VII. STATE CERTIFICATION

N	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	30	1	1
2	State examination	390	13	9

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE**

FACULTY OF HUMANITIES AND PEDAGOGY

CURRICULUM

of training specialists in 2017 academic year

Level of higher education	the second (Master)
Branch of knowledge	35 «Human sciences»
Specialty	035 «Philology (german languages and literature) (including translation)»
Educational program	«English and other foreign language», «German and other foreign language»
Orientation of educational program	educational and professional
Master's program	«Translation Activity in Agroindustrial and Environment Protection Branches»
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	philologist-researcher, translator (German/English), teacher of higher educational institution

training specialists second (master's) level of higher education in 2017 entry

specialty «Philology (German languages and literature) (including translation)» of educational program «English and other foreign language», «German and other foreign language»

[illegible]

0	-	theoretical training
:	-	examination session
-	-	vacation
0	-	educational practice

X	II	//

- scientific-practical training
- preparation of master's work
- state certification (defense of master's thesis)

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work	Practical training		Distribution of hours per week within an acad. year and semesters			
		Hours	Credits	Semesters			Total	Including				practical training	manufacturing practice				
				Exam	Test	Course paper		Lectures	Laboratory classes	Seminars							
				5	6	7	8	9	10	11	12	13	14	1 year semester	2 year semester		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	15	16	17
1. STANDARD ACADEMIC DISCIPLINES																	
1	Pedagogy and Psychology of Higher School	90	3		1, 2		30	15		15	60			1	1		
2	Methods of Teaching Translation at Higher School	90	3		2		30	15		15	60				2		
3	Communication Strategies of the First Foreign Language	270	9	1, 2			90			90	180			4	2		
4	Theory of Translation	180	6		1, 2		60	30		30	120			2	2		
5	Text	90	3		1, 2		30			30	60			1	1		
6	Translation Techniques (the first foreign language)	270	9	1, 2			105			105	165			4	3		
7	Communication Strategies of the Second Foreign Language	210	7	1, 2			75			75	135			4	1		
Total		1200	40	6	7	0	420	60	0	360	780	0	0	16	12	0	0
2. ELECTIVE ACADEMIC DISCIPLINES																	
2.1. Disciplines offered by University																	
1	Methodology and Organization of Scientific Research with Fundamentals of Intellectual Property	90	3		1		30	15		15	60			2			
2	Rhetoric and Cross-Cultural Communication	120	4	1	2		45	23		22	75			1	2		
3	Comparative Typology of the First Foreign and Ukrainian Languages	90	3		2		30	15		15	60				2		
4	Legal Framework for Educational Institution	90	3		1		30	15		15	60			2			
Total		390	13	1	4	0	135	68	0	67	255	0	0	5	4	0	0
2.2. Disciplines offered by students																	
Master's program «Translation Activity in Agroindustrial and Environment Protection Branches»																	
1	Information Technologies in Translation	120	4	2	1		45		45	0	75			1	2		
	Farming policy																
	Management																
	Labour sociology																
	Foreign Economic Activity Management																

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
2	Translation Techniques (the second foreign language)	180	6	1,2			60			60	120			2	2	
3	Translation Editing of Texts on Agricultural Issues	90	3		2		15			15	75				1	
4	Interpreting and Translation of Specialized Texts (horticulture and forestry; ecology and agronomy; veterinary medicine and animal science; agrarian law; quality, standardization and certification of production; agricultural machinery, agricultural mechanization and electrification)	90	3		2		30			30	60				2	
5	Manager of Educational Institution	90	3		2		15	7		8	75				1	
Total		570	19	3	4	0	165	7	45	113	405	0	0	3	8	0
Total for elective part		960	32	4	8	0	300	75	45	180	660	0	0	8	12	0
3. OTHER FORMS OF TRAINING																
State examination		60	2													
Master's thesis preparation and defense		240	8													
Practical training		240	8									30	210			
Course work						0										
Tests					15									6	9	0
Exams				10										5	5	0
Total for educational program		2700	90				720	135	45	540	1440	30	210	24	24	0

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standard academic disciplines	1200	40	45
2. Elective academic disciplines	960	32	35
2.1. Disciplines offered by University	390	13	14
2.2. Disciplines offered by students	570	19	21
3. Other forms of training	540	18	20
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	30	5	1	2	-	14	52
2	0	0	7	6	2	-	15
Total	30	5	8	8	2	14	67

V. PRACTICAL TRAINING

Nº	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Introductory (professional) internship	2	30	1,0	1
2	Practical training (assistance)	3	90	3,0	3
3	Practical training (translation and technology)	3	60	2,0	2
4	Practical (graduate) training	3	60	2,0	2

VI. COURSE PAPER AND PROJECTS

Nº	Discipline	Hours	Credits	Course paper	Course projects
1	Organization of Social Services Activity	30	1	+	
2	Social Work in Ukraine	30	1	+	

VII. STATE CERTIFICATION

N	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	30	1,0	1
2	State examination in Theory and Practice of Translation (the first foreign language)	30	1,0	1
3	State examination in Theory and Practice of Translation (the second foreign language)	240	8	8

CURRICULUM of training specialists in 2017 academic year

Level of higher education	the second (Master)
Branch of knowledge	73 «Management and Administration»
Specialty	073 «Management»
Educational program	«Management of educational institution»
Orientation of educational program	educational and professional
Master's program	«Management Activity at Schools», «Management Activity at Technical Schools», «Management Activity at Higher Educational Institutions»
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	manager of enterprise, institution and organization (for education and practical training)

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)				Individual work		Practical training		Distribution of hours per week within an acad. year and semesters		
		Hours	Credits	Semesters		Course paper	Total	Including		12	13	14	15	16	17		
				Exam	Test			Lectures	Laboratory classes							Seminars	
3	4	5	6	7	8	9	10	11									

1. STANDARD ACADEMIC DISCIPLINES																
1	Financial and Economic Activity Management	270	9	2			90	45		45	180				6	
2	Personnel management	150	5	1		1	60	30		30	90			4		
3	Psychology of Management	90	3	2			30	15		15	60				2	
4	Legal Framework for Educational Institution	90	3	1			30	15		15	60			2		
5	Manager of Educational Institution	90	3		2		15	7		8	75				1	
6	Theory of Performance Organization and Management	120	4		2		45	23		22	75				3	
7	Management of Educational Institution	180	6	2	1	2	60	30		30	120			2	2	
8	Management of Education and Training	90	3		1		30	15		15	60				2	
9	Information Technologies in Education and Automated Systems for Educational Institution Management	180	6,0	2	1		60	30		30	120			2	2	
Total		1260	42	6	5	2	420	210	0	210	840	0	0	10	18	0
2. ELECTIVE ACADEMIC DISCIPLINES																
2.1. Disciplines offered by University																
1	Business Foreign Language	150	5	1			60	0		60	90			4		
2	Methodology and Organization of Scientific Research with Fundamentals of Intellectual Property	90	3		1		30	15		15	60			2		
3	Education Technologies	120	4	2			60	30		30	60				4	
Total		360	12	2	1	0	150	45	0	105	210	0	0	6	4	0
2.2. Disciplines offered by students																
Master's program «Management Activity at Schools»																
1	Strategic management	90	3		1		30	15		15	60			2		
Farming policy																
Educational policy and analysis																
2	Management Technique	90	3		3		30	15		15	60				2	
Leadership																
Education abroad																

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
3	Organization of Comprehensive Educational Institution Activity	90	3		1		30	15		15	60			2		
	Conflictology															
	Education marketing															
4	Pedagogy	120	4	1			60	30		30	60			4		
Total		390	13	1	3	0	150	75	0	75	240	0	0	8	2	0
Master's program «Management Activity at Technical Schools»																
1	Strategic management	90	3		1		30	15		15	60			2		
	Farming policy															
	Educational policy and analysis															
2	Management Technique	90	3		3		30	15		15	60				2	
	Leadership															
	Education abroad															
3	Conflictology	90	3		1		30	15		15	60			2		
	Modern Software and Online Technologies in Education															
	Education marketing															
4	Pedagogy	120	4	1			60	30		30	60			4		
Total		390	13	1	3	0	150	75	0	75	240	0	0	8	2	0
Master's program «Management Activity at Higher Educational Institutions»																
1	Strategic management	90	3		1		30	15		15	60			2		
	Farming policy															
	Educational policy and analysis															
2	Management Technique	90	3		3		30	15		15	60				2	
	Leadership															
	Education abroad															
3	Modern Software and Online Technologies in Education	90	3		1		30	15		15	60			2		
	Leadership															
	Conflictology															
4	Pedagogy	120	4	1			60	30		30	60			4		
Total		390	13	1	3	0	150	75	0	75	240	0	0	8	2	0
Total for elective part		750	25	3	4	0	300	120	0	180	450	0	0	14	6	0
3. OTHER FORMS OF TRAINING																
Master's thesis preparation and defense																
Practical training		360	12													
Course work		330	11									60	270			
Tests						2								1	1	0
Exams					9									5	4	0
Total for educational program		2700	90				720	330	0	390	1290	60	270	24	24	0

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standart academic disciplines	1230	42	47
2. Elective academic disciplines	750	25	28
2.1. Disciplines offered by University	360	12	13
2.2. Disciplines offered by students	390	13	15
3. Other forms of training	690	23	25
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	30	5	-	3	-	14	52
2	-	-	11	3	1	-	15
Total	30	5	11	6	1	14	67

V. PRACTICAL TRAINING

Nº	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Introductory (professional) internship	3	60	2	2
2	Practical training (management)	3	90	3	3
3	Practical (graduate) training	3	180	6	6

VI. COURSE PAPER AND PROJECTS

Nº	Discipline	Hours	Credits	Course paper	Course projects
1	Personnel management	30	1	+	
2	Management of Educational Institution	0	1	+	

VII. STATE CERTIFICATION

N	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	360	12	7

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE**

FACULTY OF HUMANITIES AND PEDAGOGY

CURRICULUM

of training specialists in 2017 academic year

Level of higher education	the second (Master)
Branch of knowledge	11 «Education»
Specialty	011 «Educational and pedagogical sciences»
Educational program	«Pedagogy of Higher School»
Orientation of educational program	educational and professional
Master's program	«Methods of Teaching the Cycle of Agrobiological Disciplines», «Methods of Teaching the Cycle of Animal Science and Veterinary Medicine Disciplines», «Methods of Teaching the Cycle of Technical and Technological Disciplines», «Methods of Teaching the Cycle of Economic and Information Disciplines», «Methods of Teaching the Cycle of Social Sciences and Humanities»
Form of training	full-time
Term of study (Credits)	1,5 year (90)
On the basis of	the first level of higher education «Bachelor»
Educational degree	«Master»
Qualification	teacher of higher educational institution

I. TRAINING PROCESS SCHEDULE

[illegible]

Legend:

	-	theoretical training	X	-	scientific-practical training
:	-	examination session	II	-	preparation of master's work
-	-	vacation	//	-	state certification (defense of master's thesis)
O	-	educational practice			

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)				Audience employments (hours)				Individual work				Practical training		Practical training practice		Distribution of hours per week within an acad. year and semesters			
		Credits		Senesters				Including				Total				practical training		manufacturing practice		Number of weeks in semester			
		Hours		Exam	Test	Course paper		Lectures	Laboratory classes	Seminars										1	2	3	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17				15	15	0	
1. STANDARD ACADEMIC DISCIPLINES																							
1	Introduction to Specialty	90	3	1	1		30	15		15	60			2									
2	Pedagogy	180	6	1	1		60	30		30	120			4									
3	Developmental and Pedagogical Psychology	210	7	1	2		75	30		45	135			3	2								
4	Principles of Scientific Research in Pedagogy	90	3	1			30	15		15	60			2									
5	History of Pedagogy and Development of Higher Education in Foreign Countries	90	3	1			45	22		23	45			3									
6	Principles of Pedagogical Skills and Ethics for Academic Staff of Higher School	120	4	2			45	22		23	75												
7	Theory and Methods of Professional Training	150	5	2			60	30		30	90												
8	Organization of Educational Work at Higher Education Institutions	120	4	2			45	15		30	75												
9	Information Technologies in Education	210	7	2			75	30	45	0	135												
Total		1260	42	7	3	1	465	209	45	211	795	0	0	14	17	0							
2. ELECTIVE ACADEMIC DISCIPLINES																							
2.1. Disciplines offered by University																							
1	Business Foreign Language	150	5	1			60			60	90			4									
2	Methodology and Organization of Scientific Research with Fundamentals of Intellectual Property	90	3		1		30	15		15	60			2									
3	Pedagogical Technologies	90	3		2		30	15		15	60												
Total		330	11	1	2	0	120	30		90	210	0	0	6	2	0							
2.2. Disciplines offered by students																							
1	Educational measurement	90	3		1		30	15		15	60			2									
2	Professional Training	90	3		1		30	15		15	60			2									
3	Manager of Educational Institution	90	3		2		15	8		7	75												
Master's program «Methods of Teaching the Cycle of Agrobiological Disciplines»																							

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
4	Methods of Teaching the Cycle of Agrobiological Disciplines	180	6	2		2	60	30		30	120				4	
Master's program «Methods of Teaching the Cycle of Animal Science and Veterinary Medicine Disciplines»																
4	Methods of Teaching the Cycle of Animal Science and Veterinary Medicine Disciplines	180	6	2		2	60	30		30	120				4	
Master's program «Methods of Teaching the Cycle of Technical and Technological Disciplines»																
4	Methods of Teaching the Cycle of Technical and Technological Disciplines	180	6	2		2	60	30		30	120				4	
Master's program «Methods of Teaching the Cycle of Economic and Information Disciplines»																
4	Methods of Teaching the Cycle of Economic and Information Disciplines	180	6	2		2	60	30		30	120				4	
Master's program «Methods of Teaching the Cycle of Social Sciences and Humanities»																
4	Methods of Teaching the Cycle of Social Sciences and Humanities	180	6	2		2	60	30		30	120				4	
Total																
Total for elective part																
3. OTHER FORMS OF TRAINING																
Master's thesis preparation and defense		420	14													
Practical training		240	8									30	210			
Course work						2								1	1	0
Tests					8									4	4	0
Exams				9										4	5	0
Total for educational program		2700	90				720	307	45	368	1320	30	210	24	24	0

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standart academic disciplines	1260	42	47
2. Elective academic disciplines	680	26	33
2.1. Disciplines offered by University	330	11	13
2.2. Disciplines offered by students	450	13	20
3. Other forms of training	660	22	24
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Course	Theoretical training	Examination period	Practical training	Preparation of master thesis	State examination	Holidays	Total
1	30	5	1	2	-	14	52
2	0	0	7	7	1	-	15
Total	30	5	8	9	1	14	67

V. PRACTICAL TRAINING

Nº	Type of practice	Semester	hours	Credits	Amount of weeks
1	Introductory (professional) internship	2	30	1	1
2	Practical training (complex)	3	120	4	4
3	Practical (scientific and pedagogical) training	3	90	3	3

VI. COURSE PAPER AND PROJECTS

Nº	Discipline	Hours	Credits	Course paper	Course projects
1	Pedagogy	30	1	+	
2	Methodology of studying the cycle of disciplines	30	1	+	

VII. STATE CERTIFICATION

N	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	420	14	10

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE**

EDUCATION AND RESEARCH INSTITUTE OF CONTINUING EDUCATION

**CURRICULUM
of training specialists in 2017 academic year**

Level of higher education
Branch of knowledge
Specialty
Educational program
Orientation of educational program
Master's programs

the second (Master)
07 «Management and Administration»
073 «Management»
«Management of Innovative Activity»
educational and professional
Management of Enterprises' Innovative Activity of Agrarian Sector of Economy

Form of training
Term of study (Credits)
On the basis of

Full-time
1,5 years (90)
the first level of higher education «Bachelor»
the second level of higher education «Master»
Master
Master of Management of innovative activity

Educational degree
Qualification

I. TRAINING PROCESS SCHEDULE

training specialists of the second (Master's) level of higher education in 2017 entry specialty 073 «Management» of educational program «Management of Innovative Activity»

[illegible]

Legend:

-	theoretical training	X	-	scientific-practical training
-	examination session	II	-	preparation of Master's work
-	vacation	//	-	state certification (defense of master's thesis)

II. CURRICULUM OF THE EDUCATIONAL PROCESS

N	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)		Audience employments (hours)				Individual work		Practical training		Distribution of hours per week within an acad. year and semesters			
		Hours	Credits	Exam	Test	Course paper (project)	Total			12	13	14	the 1 st year			the 2 nd year	
							Lectures	Laboratory classes	Seminars				semester			Number of weeks in a semester	
													1	2	3		
																	15
1	2	3	4	5	6	7	8	9	10	11	12	15	15	16	17		
1. STANDARD ACADEMIC DISCIPLINES																	
1.1	The economy of the innovation enterprise	180	6	1		1	30	15		15	150			2			
1.2	Financial management	150	5	2			60	30		30	90				4		
1.3	Consulting management in agriculture	120	4		1		30	15		15	90			2			
1.4	System analysis and decision making management	150	5	2			60	30		30	90				4		
1.5	Information systems and technologies in management activity	120	4	1			45	15		30	75			3			
1.6	Intellectual property	150	5	1			45	30		15	105			3			
1.7	Technology transfer	150	5		2		30	15		15	120				2		
1.8	Marketing of Innovations	150	5		2		30	15		15	120				2		
1.9	Innovation management	180	6	1			60	30		30	120			4			
Total		1350	45	6	3	1	390	195		195	960			14	12		
2. ELECTIVE ACADEMIC DISCIPLINES																	
2.1. Disciplines offered by University																	
2.1	Agrarian policy	120	4		2		30	15		15	90				2		
2.2	Business Foreign Language	120	4		1		30			30	90			2			
2.3	Methodology of scientific research	90	3		1		30	15		15	60			2			
2.4	International management	90	3		3		40	20		20	50					4	
Total		420	14		4		130	50		80	290			4	2	4	
2.2. Disciplines offered by students																	
Master's program «Management of enterprises' innovative activity of agrarian sector of economy»																	
2.5	Management of innovative projects	180	6	2		2	60	30		30	120				4		
	Logistic support for innovation																
2.6	Risk management in agroindustrial production	180	6	3			40	20		20	140					4	
	Organization of small innovative business																

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
2.7	HR-management in innovation activity	150	5	3			40	20		20	110					4
	Innovative Providing															
2.8	Strategic management of innovative development	150	5	3			40	20		20	110					4
	Quality management and certification of agricultural products															
Total		660	22	4		2	180	90		90	480				4	8
Total for elective part		2430	81	10	7	3	700	335		365	1730					
State examination		180	6													
Practical training		90	3													
Course work						2										
Tests					7											
Exams				10												
Total for educational program		2700	90	10	7	2	700	335		365	1730					

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standard academic disciplines	1350	45	50
2. Elective academic disciplines	1080	36	40
2.1. Disciplines offered by University	420	14	16
2.2. Disciplines offered by students	660	22	24
3. Other forms of training	270	9	10
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Year	Theoretical training	Examination period	Practical training	Preparation of Master thesis	State examination	Vacation	Total
1	30	5	5	4		8	52
2	10	2		2	1		15

V. PRACTICAL TRAINING

Nº	Type of training	Semester	Hours	Credits	Amount of weeks
1	Manufacturing training	2	180	6	5

VI. COURSE PAPER AND PROJECTS

Nº	Discipline	Hours	Credits	Course paper	Course projects
1	The economy of the innovation enterprise	30	1	+	
2	Management of innovative projects	30	1	+	

VII. STATE CERTIFICATION

Nº	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	90	3	7

CURRICULUM

of training specialists in 2017 academic year

Level of higher education	the second (Master)
Branch of knowledge	28 «Public Management and Administration»
Specialty	281 «Public Management and Administration»
Educational program	«Public Administration»
Orientation of educational program	educational and professional
Master's programs	«State Regulation of Agroindustrial Complex», «Organizational and Legal Support for Public Management», «Organization of Public Management and Administration in Government»
Master's programs	Part-time
Form of training	30 months (90)
On the basis of	the first level of higher education «Bachelor», the second level of higher education «Master»
Educational degree	«Master»
Qualification	Master of Public Management and Administration

I. TRAINING PROCESS SCHEDULE
training specialists of the second (Master's) level of higher education in 2017 entry
specialty 281 «Public Management and Administration»

Year of study	2017												2018																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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II. CURRICULUM OF THE EDUCATIONAL PROCESS

№	Name of Academic Discipline	Total amount		Forms of knowledge control (for sem.)			Audience employments (hours)			Individual work	Practical training		Practical training	Розподіл тижневих годин за курсами та семестрами				
		Hours	Credits	Exam	Test	Course paper (project)	Total	Including			the 1 st year	the 2 nd year		the 3 rd year	the 4 th year	the 5 th year		
1. STANDARD ACADEMIC DISCIPLINES																		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1.1	Public Policy	150	5	1			24	16		8	126			24				
1.2	Public Service	120	4	2			24	16		8	96			24				
1.3	International Public Management and Security	90	3		3		14	10		4	76				14			
1.4	Globalization and European integration	90	3		5		20	12		8	70							20
1.5	Political aspects of state administration	90	3	2			18	10		8	72			18				
1.6	Anti-crisis management	90	3		2		18	10		8	72			18				
1.7	National anti-corruption policy	90	3				20	12		8	70				20			
1.8	Law in Public Management	90	3	1			18	10		8	72			18				
1.9	Public Management	90	3	3			18	10		8	72				18			
1.10	Economics and Governance	180	3		1		36	12		8	144			20				
			3	2				8		8				16				
1.11	Social and humanitarian policy	90	3	1			18	10		8	72			18				
1.12	Municipal Management	90	3		4		22	12		10	68					22		
1.13	Resource Management	90	3		2		18	10		8	72			18				
1.14	Psychology of management	120	4	1			20	12		8	100			20				
Total for standard part		1470	49	9	6		288	170		118	1182			100	94	52	22	20
2. ELECTIVE ACADEMIC DISCIPLINES																		
2.1. Disciplines offered by University																		
2.1	Agrarian policy	90	3	3			20	12		8	70							
2.2	Methodology and organization of scientific researches with fundamentals of intellectual property	90	3		4		20	12		8	70							
2.3	Information Technology, Resources and Services in Management and Administration	120	4		3		26	6	20		94							
2.4	Business English	90	3		2		16			16	74							
Total		390	13	1	3		82	30	20	32	308			16	46	20	0	0

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
2.2. Disciplines offered by students																		
Master's program «State Regulation of Agroindustrial Complex»																		
2.5	State Regulation of Agricultural Products Markets	150	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
			2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
			2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
2.6	State Regulation of the Markets for Resources of the Agroindustrial Complex	150	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
			2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
			2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
2.7	Administrative and Legal Support for Management of Agroindustrial Production	120	4	4	4	4	4	4	20	12	8	8	100				20	
2.8	Monitoring and Evaluation of Land Management Efficiency	120	4	4	4	4	4	4	20	12	8	8	100					20
2.9	State control over innovative activities	120	4	4	4	4	4	4	20	12	8	8	100					20
Total		660	22	4	3	4	3	128	72	56	532					48	80	
Master's program «Organizational and Legal Support for Public Management»																		
2.5	Management of State Corporate Rights	150	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
			2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
			2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
2.6	Legal Process in Land Management	150	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
			2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
			2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
2.7	Legal Principles of State Antimonopoly Regulation	120	4	4	4	4	4	4	20	12	8	8	100				20	
2.8	Legal Principles of State Administration in the Agroindustrial Complex	120	4	4	4	4	4	4	20	12	8	8	100					20
2.9	Finance Law	120	4	4	4	4	4	4	20	12	8	8	100					20
Total		660	22	4	3	4	3	128	72	56	532					48	80	
Master's program «Organization of Public Management and Administration in Government»																		
2.5	Territorial Organization of State Power in Ukraine	150	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
			2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
			2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
2.6	Public Administration in Public Authorities and Local Self-government	150	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
			2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
			2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
2.7	Management of State and Municipal Lands	120	4	4	4	4	4	4	20	12	8	8	100				20	
2.8	Public Administration of Rural Areas of Ukraine	120	4	4	4	4	4	4	20	12	8	8	100					20
2.9	Foreign Experience in Public Management and Administration	120	4	4	4	4	4	4	20	12	8	8	100					20
Total		660	22	4	3	4	3	128	72	56	532							
Total for elective part		1050	35	5	6	12	20	88	206	20	2022							
Total		2520	84	14	12	498	272	20	206	20	2022							
Master's thesis preparation and defense		180	6															
Tests		12																
Exams		14																
Total for educational program		2700	90	14	12	498	272	20	206	20	2022							

III. STRUCTURE OF THE CURRICULUM

Disciplines	Hours	Credits	%
1. Standard academic disciplines	1470	49	54,4
2. Elective academic disciplines	1050	35	38,9
2.1. Disciplines offered by University	390	13	14,4
2.2. Disciplines offered by students	660	22	24,4
3. Other forms of training	180	6	6,7
Total for educational program	2700	90	100

IV. CONSOLIDATED DATA OF BUDGET TIME (BY WEEKS)

Year	Theoretical training	Examination period	Practical training	Preparation of Master thesis	State examination	Vacation	Total
1	6	6					12
2	6	6					12
3	3	3		6			12
Total	15	15		6			36

V. PRACTICAL TRAINING

№	Type of training	Semester	Hours	Credits	Amount of weeks
	-	-	-	-	-

VI. COURSE PAPER AND PROJECTS

№	Discipline	Hours	Credits	Course paper	Course projects
	-	-	-	-	-

VII. STATE CERTIFICATION

№	Attestations	Hours	Credits	Amount of weeks
1	Master's thesis preparation and defense	180	6	6 (Including Individual work)

THE CURRICULA FOR THE TRAINING OF MASTERS

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