

## VETINARY MEDICINES, BIOTECHNOLOGY AGRIC MECHANIZATION, ETC ,

### Agro Mechanical Faculty

The agro mechanical faculty as well as the University was founded in 1954. It is a leading educational scientific subdivision of the University. Specialists with innovative thinking and developed leadership qualities are trained here. The students can carry out technological, administrative, research, scientific and educational work in the field of designing, technical service and maintenance of automobile and tractor park. They get fundamental knowledge in the field of technical sciences, humanities, foreign economy and languages, management of agricultural enterprises.

About 20000 agro engineering specialists have been prepared at the faculty. The graduates are in great demand.

The teaching staff of the faculty is represented by highly qualified specialists with pedagogical, practical and scientific experience. Innovative methods of education are used in teaching process. High-level specialists' training is provided at 11 chairs.

The logistical basis of the faculty meets all modern requirements of scientific progress and engineering specialists' training. There are affiliated chairs at the leading enterprises of the country. Their main purpose is integration of education, science and production while preparing practically oriented specialists in agri-business.

The students undergo an industrial practical training at advanced farm enterprises. Besides they have opportunities to be trained abroad (Germany, Holland, Great Britain and Switzerland).

The students of the faculty are trained on the following specialities:

SPECIALITY	QUALIFICATION	TERM OF STUDY
1-74 06 01 Technical Support of Agricultural Production Processes	Engineer	4.5 years
1-36 12 01 Agricultural Equipment Design and Production	Engineer	4.5 years

## Agro-power faculty

The agro-power faculty is a unique faculty in the Republic of Belarus that trains skilled specialists in the field of agribusiness power engineering.

The faculty was founded in 1957. More than 15000 specialists have graduated from the faculty since that time.

There are 9 chairs and 44 training laboratories at the faculty. The faculty provides all necessary facilities for teaching process: educational methodical complexes, on-line textbooks, educational and methodical literature for lab and practical classes. Innovative educational technologies are used during the whole educational process. More than 100 highly qualified teachers, professors and associate professors make up the staff of the faculty.

The scientific results on up-to-date directions of electrification and automatization in agriculture are used in educational process. The students are taught how to increase reliability of power supply of rural users, to optimize electrical equipment, to apply alternative energy sources, to improve and design new power saving technologies.

The educational process is closely integrated with business. The students have practical training to improve their professional skills. Some of the chairs have their subdivisions at industrial enterprises and research institutions.

Besides, the students of the faculty have possibilities to be trained abroad (Germany, Holland, Great Britain, and Switzerland).

The graduates of the faculty are in great demand at power industry and different enterprises of the agro-industrial complex.

The students of the faculty are trained on the following specialties:

SPECIALITY	QUALIFICATION	TERM OF STUDY
1-53 01 09 Automation of Technological Processes and Production	4.5 years	Engineer
1-74 06 05 Energy Supply in Agriculture	4.5 years	Engineer

## Master's degree programme

SPECIALITY	DEGREE	TERM OF STUDY
1-74 80 06 Electro technologies and Electric Equipment in Agriculture	Master of Science in Engineering	1 year

## Farm machinery service faculty

**The farm machinery service faculty is a unique faculty in the Republic of Belarus that trains qualified engineers and engineers-managers for agro-technical service. The faculty was founded in 2000.**

The faculty consists of 7 chairs. More than 120 highly qualified teachers, professors and associate professors work at the faculty.

The faculty has modern material and technical basis: research laboratories equipped with diagnostic, scientific and technological equipment, workshops for students' training practice, classrooms, computer classes.

Currently, about 850 students are trained at the faculty. Among them there are citizens of foreign countries such as Turkmenistan, Lebanon, Nigeria, Iraq, Iran and others.

The graduates of the faculty are prepared to work in the sphere of technology and means of maintenance, diagnosis and repair of machines; management processes of the organization and planning of the logistical support, logistics agro services. They can work at agricultural, agro service enterprises, dealer technical centers of manufacturing plants, logistics centers, research organizations and etc. The graduates also have an opportunity to continue their education on postgraduate courses.

Besides, the students of the faculty have possibilities to undergo practice abroad on farms of Germany, Norway, the Netherlands, Great Britain, and other countries.

The students of the faculty are trained on the following specialities:

SPECIALITY	QUALIFICATION	TERM OF STUDY
1-74 06 03 Repair Service Production in Agriculture	Engineer	4.5 years
1-74 06 06 Logistic Support of Agro-industrial Sector	Engineer. Manager	4.5 years

Master's degree programme

SPECIALITY	DEGREE	TERM OF STUDY
1-74 80 07 Technology and Maintenance in Agriculture	Master of Science in Engineering	1 year

**Agronomical faculty** The Agronomical Faculty was founded in 1951 and today it is one of the oldest departments of the University..

**There are two specialties at the Faculty:** 1 – 74 02 01 – «Agronomy», qualification – agronomist, period of studying is 4 years and 6 months. The period of studying according to the uninterrupted integrated educational system is 2 years and 6 months. Specialists can work in agro industrial sector, at enterprises of processing of plant crop production in scientific research institutions.

1–74 02 04 – «Horticulture» qualification: agronomist. The students of this specialty can study only according to the uninterrupted integrated educational system. Period of studying is 2 years 10 months. The graduates can work at agro industrial sector, at agricultural companies, industrial and scientific-production associations, farming cooperatives, farms, research institutions. More than 11,700 experts have already graduated from the faculty; among them are many leading scientists and teachers, agricultural enterprises managers and directors. The Faculty has the very modern base for both theoretical and practical training and for scientific research conducting. Practical training of students is carried out in the advanced agricultural enterprises of the republic, research institutes, experimental stations and farms of Belarus, Germany and Poland. Theoretical and practical training are skillfully integrated.

This fact allows the University to train highly skilled agronomy experts that meet the needs of modern agriculture.

Graduates of the faculty have the opportunity to undertake the one-year magistracy course in "Agronomy" and postgraduate course in "Agrochemistry" or "Plant Breeding and Seed Production."

**Faculty of plant protection** the Faculty trains students in two specialities:

PLANT PROTECTION AND QUARANTINE;

AGROCHEMISTRY AND SOIL SCIENCE

The Faculty trains about 350 students every year: it offers both free of charge and fee-paying education. In 2002 the Faculty opened the postgraduate study in "Plant Protection" and since 2005 it has been training masters in "Agronomy". The Faculty provides well-equipped teaching, organizes various kinds of practical work (fact-finding, educational, technological, industrial, pre-degree), holds scientific, scientific and practical conferences, carries out soil expeditions and excursions, public presentation reports on industrial practice and traineeships. Lecture-halls and university laboratories where theoretical studies take place are well-equipped and have all the most modern devices..

## Veterinary Medicine faculty

Education is provided in the specialty :1-74 03 02 "Veterinary Medicine"

**Qualification:** Doctor of Veterinary Medicine

Duration of training: 5 years

There are three veterinarian clinics and a research laboratory with all modern equipment at the Faculty. Faculty students have a unique opportunity to consolidate theoretical and practical skills, to develop new technologies in agricultural production, animal husbandry and veterinary experimental farm "Progress Vertelishki", subsidiary branches of the university chairs, in the processing plants and farms.

The Faculty established scientific cooperation with Poland: Warmia and Mazury University, Warsaw Agrarian University and with the Physical Chemistry Department, Lodz Institute of Chemistry; in Lithuania: the Lithuanian Veterinary Academy in Kaunas; Bulgaria: the Research Institute of Animal Husbandry in Kastrinbrod; Russia: Kaliningrad State Technical University, St. Petersburg Academy of Veterinary Medicine, Moscow Academy of Veterinary Medicine and Biotechnology. The Veterinary Faculty conducts research projects with the Educational Establishments "Belarusian State Agricultural Academy" in Gorki, "Vitebsk State Medical University", "Vitebsk State Academy of Veterinary Medicine", the Institute of Microbiology in Institute of Experimental Veterinary Medicine of Vyshesleski S.N. in Minsk, etc.

The Veterinary Faculty staff conducts diversified scientific research, which resulted in a whole series of the prevention and treatment drugs for farm animals. The Faculty work priority is the creation of microbiological synthesis preparations to be used in immunocorrection growth and development stimulation, in prevention and treatment of gastrointestinal diseases in young farm animals and poultry. Special attention is given to the educational and ideological work with the students. Educational activities at the faculty are presented by labor education, moral education, by socio-psychological adaptation of students, environmental education, by formation civic mindedness

## Engineering and Technology faculty

The Faculty trains the students in the following specialties:

1-49 01 01 "Technology of storage and processing of food raw materials» (specialization 1-49 01 01 01 "Technology of storage and grain processing" and 1-49 01 01 02 "Technology of bread, pasta, pastry and concentrate production");

1-49 01 02 "Technology of storage and raw animal material" (specialization 1-49 01 02 01 "Technology of meat and meat products" and 1-49 01 02 02 "Technology of milk and milk products").

The students can get High Education in two forms of Education: full – time and part-time Course.

Period of study – 4 years 10 months (Full – time Course); 6 years (Part-time Cours

When graduating from the University, a student obtains a qualification "Process planner. Students have manufacturing practice on the leading farms of agro-industry complexes, which are confirmed by the Ministry of Agriculture and Food of the Republic of Belarus.

## Engineering and Technology faculty

The faculty has a modern and technical basis for theoretical and practical training of the specialists and for research work. The best students are offered postgraduate courses. Practical training is carried out at the leading enterprises of the republic and research institutes. Close interaction between theoretical and practical studying helps to prepare highly qualified specialists. The graduates of the faculty are in great demand.

The students are given the opportunity of practical training at advanced enterprises, organizations and research institutions of the Republic of Belarus, as well as an internship in Germany, Switzerland, Norway, and Holland.

SPECIALITY	QUALIFICATION	TERM OF STUDY
1-74 06 02 Technical Support of Agricultural Products Storage and Processing	Engineer	4,5 years
1-74 06 07 Occupational Safety Administration in Agriculture	Engineer	4,5 years
1-54 01 01 Metrology, Standardization and Certification	Engineer	4,5 years

### Master's degree programme

SPECIALITY	DEGREE	TERM OF STUDY
1-74 80 08 Technology of Food Products	Master of Science in Technology, Master of Science in Agriculture	1 year
1-59 80 01 Labour Protection	Master of Science in Engineering	1 year

## Faculty of Mechanization (extramural education)

At present about 3000 correspondence-course students are trained at the faculty. The students have all the necessary facilities for receiving high quality education. Training laboratories are equipped with up-to-date agricultural machinery of the Belarusian and foreign producers, equipment for storage and processing of agricultural production and for maintenance of farm machinery.

While studying, the students have the opportunity to learn the achievements of science and technology and apply them at their workplace. The use of modern technologies makes the educational process intensive. The graduates of the faculty are in great demand. They work at different enterprises of agro-industrial complex.

The students of the faculty are trained on the following specialities:

SPECIALITY	QUALIFICATION	TERM OF STUDY
1-74 06 01 Technical Support of Agricultural Production Processes	Engineer	5.5 years
1-74 06 02 Technical Support of Agricultural Products Storage and Processing	Engineer	5.5 years
1-74 06 03 Repair Service Production in Agriculture	Engineer	5.5 years
1-74 06 06 Logistic Support of Agricultural and Industrial Sector	Engineer. Manager	5.5 years
1-74 06 07 Occupational Safety Administration in Agriculture	Engineer	5.5 years



## Business and management faculty.

For successful organization of the educational process the chairs of the faculty have spacious classrooms, necessary computer equipment, educational television and the latest multimedia. The students of the faculty are trained on the following specialities:

SPECIALITY	QUALIFICATION	TERM OF STUDY
1-74 01 01 Economics and Production Management in the Field of Agroindustrial Complex	Economist. Manager	4 years
1-26 02 02 Management	Economist. Manager	4 years
1-74 01 01 Economics and Production Management in the Field of Agroindustrial Complex (extramural)	Economist. Organizer	5 years

## Master's degree programme

SPECIALITY	DEGRE	TERM OF STUDY
1-25 80 04 Economics and Management of the National Economy	Master of Economics	1 year

Please, get acquainted carefully with studying prices for 2015/2016 studying year. It is worth to know that studying costs are established by the rector every year.

## **Professional development and retraining institute of agribusiness specialists**

The institute provides:

1. Retraining of the managerial staff and specialists with higher education in the following specialities:

- Management of Organizations and Subdivisions of the agro-industrial complex with qualification obtained "Manager", for specialists in reserve for chief position occupations, full-time 3,5 months' period of education and correspondence course lasts 23 months; period of education of specialists in reserve for chief position occupations (for the 4-5th year students) is 18 months;
- Educational Activity of Specialists with qualification obtained "Lecturer in accordance with the university degree qualification" for teaching staff of agricultural educational establishments;
- Economy and Management at Agribusiness Enterprises with qualification obtained "Economist";
- Labour Protection in Agriculture with qualification obtained "Labour Protection Specialist";

2. Professional development of the managerial staff and specialists of regional food and agricultural organizations, service enterprises, processing plants of the agro-industrial complex oriented towards innovative development of industry.

3. Practice of the managerial staff and specialists in agribusiness.

Training at the Institute is provided by highly-qualified teaching staff. Quite frequently the Institute conducts practical classes at the agro-industrial complex enterprises, processing plants, farm machinery manufacturing plants, laboratories of the Scientific Practical Center and introduces to its trainees the new developments of the National Academy of Science of the Republic of Belarus, the Ministry of Industry and State Standard of the Republic of Belarus. Different International and Republican exhibitions are also visited during the training period.

A modern educational and technical basis is at the disposal of the Institute. It also makes use of the bases of the specialized chairs of Belarusian State Agrarian Technical University, the Republican educational center of practical training, research laboratories, affiliated chairs of the University at the research institutions, industrial and agricultural enterprises. Professional development and retraining institute in agribusiness develops educational services export. Period association contracts with the educational establishments of Russia, Kazakhstan and other countries are made.

The trainees of the professional development and retraining institute in agribusiness live at comfortable hostels. At the trainees' disposal there is a library, reading halls, a canteen and cafes, a first-aid post, a stadium and various sports grounds

## Accommodation and Leisure





The University campus is a nice, well-planned green area in the heart of the capital of Belarus. Every visitor admires beautiful alleys lined with trees and shrubs. The beauty of the campus is enhanced by colourful landscapes, flower beds and lawns.

The University campus consists of 6 university buildings, 9 hostels and the University youth center. At the students' disposal there is a library, reading halls, a first-aid post, a stadium and various sports grounds. The university canteen and some cafes are ready to offer delicious meals. Special attention is given to sport at the University. The University has one of the best sport bases in the Republic. It is possible to do 19 kinds of sports here. A modern sport base, good organization and active involvement of the students in sport and health-improving activity contribute to popularity of sport at the University, preparation of healthy strong advanced specialists of the agro-industrial complex. The University is proud of its Olympic and world champions.

The students can spend their free time enjoying themselves at 32 clubs or university folk theatre "Prometei"

## **STUDY OIL AND GAS ENGINEERING**

### **DEPARTMENTS AND COURSES ;**

The Department of Chemistry and Technology of Oil and Gas Processing

University carries out training of engineers of chemical technology who will work at oil refinery enterprises. The Department trains highly-qualified technologists.

Starting from the 3rd Year of study students proceed to mastering the disciplines of the program. The cycle of these disciplines presupposes 3 course presentations and 2 course papers. This gives the students the opportunity to gain some practical experience in different types of calculations, technological schemes designing, and many other spheres of professional activity. At the end of the whole training course the students pass a degree examination and present their diploma projects.

## **DEPARTMENT OF CHEMICAL ENGINEERING AND LABOR PROTECTION**

Since 1968 students are trained on the programme 'Equipment for the Chemical Industry and Enterprises of Construction Materials'. The graduates are qualified as mechanical engineers and can work at different oil-refining and other types of enterprises.

It is also possible to conduct research on a post-graduate program 'Equipment for the Chemical Technology

## **DEPARTMENT OF PIPELINE TRANSPORT, WATER SUPPLY AND HYDRAULICS**

Since 1995 the department trains future engineers on the program 'Design, Assembling, and Exploitation of Gas and Oil Pipelines'. The specialists will be able to work at enterprises and organizations dealing with transportation, storage, and distribution of oil and gas.

During the whole period of training the students will have to master the following disciplines:

- Gas-turbine Installations Hydraulics and Hydraulic Machines
- Hydromechanics and Aerodynamics Hydraulic Actuator and Hydraulic Automatics
- Protection in the Emergency Situations Information Technologies in Pipeline Transport
- Machines and Equipment of Oil and Gas Pipelines Workings of Liquids and Gases
- Pumps and Ventilators
- Theory of Oil and Gas Matter Environmental Science Design and Exploitation of Oil Storehouses Industrial Security of Objects of Pipeline Transport Radiation Security Systems of Supply with Oil Products and Gas Systems of Electrical and Chemical Security of Pipeline Transport Construction of Pipelines Technical Diagnostics of

Pipelines Pipe-line Transport and Gas Storage Pipe-line Transportation of Oil and Oil Products Quality Managing and Certification

The Department of Pipeline Transport, Water Supply and Hydraulics is the main founder of the International Ecological Symposium and the International Scientific Conference 'Safety and Security of the Header Pipeline Transport'

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## **Department of Heat and Gas Supply and Ventilation**

The graduates deal with the issues of building and exploitation of the systems of heat supply, ventilation, air conditioning; gas supply of civil and industrial objects; air protection.

The main disciplines of the curriculum:

- Engineering Thermodynamics
- Heating
- Ventilation
- Air Conditioning and Cold Supply
- Gas Supply
- Heat Supply
- Engineering Ecology
- Technology of Building and Installation Work, etc.

The students have several practical trainings during the whole course:

- geodetic training
- introductory training
- technological training
- organizational and technological training
- pre-graduation training

After finishing the whole course of training a specialist is given the qualification of a civil engineer.

Our graduates can work:

- at civil and specialized building and fitting enterprises and organizations;
- at enterprises and organizations that deal with adjustment, exploitation, maintenance and reconstruction of the systems of heat and gas supply, ventilation, conditioning and air purification;
- at heat producing and heat and gas consuming installations;
- at enterprises and organizations that carry out the design of the systems of heat and gas supply, ventilation, conditioning and air purification in civil, public, and industrial buildings.

The Department conducts research in the following areas:

- design and introduction of resource saving systems of heat and gas supply, ventilation, purification of industrial emissions;
- design of ecological and economical apparatus of gas consuming devices and systems of ventilation;
- optimization of the processes of heat and mass exchange while thermal treatment of different materials and products.

There is a possibility to conduct research on a post-graduate program ‘Heat Supply, Ventilation, Air- Conditioning, Gas Supply, and Lighting’

The lecturers at the Department together with their students carry out research work and take part in different seminars, conferences, and symposia



## **Chemical Technology of Natural Energy Sources and Carbon Materials**

‘Chemical Technology of Natural Energy Sources and Carbon Materials’ is one of the most prestigious (among the technical ones) . Students have to know that future specialists in this field solve practically all current issues and they manage the work of all departments and even whole enterprises. They are in charge of many other specialists (mechanical engineers, electricians, instrument tenders, heating engineers, economists, and many others) so that future technologists have to be not only well educated but to be able to work with people. Chemical technology is a science, a field of practical activity, and even art in a way. It has definite patterns. If a student masters these patterns, they will be able to become a specialist not only in oil refining, but in many other fields.

Design, Assembling, and Exploitation of Gas and Oil Pipelines, and Gas and Oil Storages

For getting higher education in the programme ‘Design, Assembling, and Exploitation of Gas and Oil pipelines, and Gas and Oil Storages’ students will have to master the following disciplines:

- Gas-turbine installations
- Hydraulics and hydraulic machines
- Hydromechanics and aerodynamics
- Hydraulic actuator and hydraulic automatics
- Protection of population and household objects in emergency situations
- Information technologies in pipe-line transport
- Machines and equipment of oil and gas pipe-lines
- Workings of liquids and gases
- Pumps and ventilators
- Theory of oil and gas matter
- Environmental science
- Design and exploitation of oil storehouses
- Industrial security of objects of pipe-line transport
- Radiation security
- Systems of supply with oil products and gas



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- Systems of electrical and chemical security of the objects of pipe line transport
- Construction of objects of pipeline transport
- Technical diagnostics of the objects of pipe-line transport
- Pipe-line transport and gas storage

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- Pumps and ventilators
- Theory of oil and gas matter
- Environmental science
- Design and exploitation of oil storehouses
- Industrial security of objects of pipe-line transport
- Radiation security
- Systems of supply with oil products and gas
- Systems of electrical and chemical security of the objects of pipe line transport
- Construction of objects of pipeline transport
- Technical diagnostics of the objects of pipe-line transport
- Pipe-line transport and gas storage
- Pipe-line transportation of oil and oil products
- Quality management and certification

A very important aspect is students' scientific work. The students are awarded prizes at the annual Republic competition of students' research works. In addition to this there are additional classes on ecological science in the network of Baltic University program (Sweden).

The work on development and presentation of diploma projects is well organized at the department. The choice of issues meets the modern level of development of science and technique, and the objects under research are real enterprises.

Equipment for the Chemical Industry and Enterprises of  
Construction Materials

### **The qualification given – ‘mechanical engineer’**

.Our specialists can work at different enterprises of oil refinement and other fields. All graduates get the first working place that can provide them with the highest salaries in the republic.

The students' practical training is carried out mainly at plants “Naftan”, “Polymir”, and “Polotsk-Steklovolokno”. At these enterprises the students also get the material for their course and diploma projects.

For those who want to connect their lives with science, it is possible to get a post-graduate training at the specialty ‘Equipment for the Chemical Technology’.

### **What is Chemical Engineering?**

Chemical Engineering – is a field of knowledge that represents the interconnection of Chemistry and engineering sciences. Production processes of Chemical Engineering consist of numerous chemical, biological, and physical processes. Chemical and biological processes change chemical nature of substances; with the help of physical processes substances change their shape and modify, cool down, or warm up. These processes have enormous value for global economy.

## **HEAT AND GAS SUPPLY, VENTILATION AND AIR PROTECTION**

The qualification given – ‘civil engineer’. A future specialist investigates the questions of building and exploitation of the systems of heat supply, heating, ventilation, conditioning, gas supply of civil and industrial objects, and the environment protection.

The main disciplines: engineering thermodynamics; heat-mass exchange; heating; ventilation; heat supply; air conditioning and cold supply; ventilation of special buildings; perspective and non-traditional systems of gas and heat supply and ventilation; metrology, etc. Practical trainings: geodetic, training and introductory, I – production, II – production, pre graduation.

The deterioration of the ecological state of water resources makes it more and more difficult to provide the population with high quality water. The solution of this problem is not an easy task and it presupposes the specialists’ deep knowledge in different fields of modern science, technique, and technologies. That is why students master different subjects during the whole period of training:

mechanics of liquids, water chemistry and microbiology;

pumps and pump stations, water intake structures, networks of water supply and water utilization, technology of purification of natural and drain waters, and many others.

During the period of training students carry out course projects and have practical trainings. At the final stage students work on diploma projects and then present them. The themes of the diplomas are connected with a complex solving of all issues that touch the system of water supply and water utilization in a town or at the enterprises. The graduates are qualified as civil-processing engineers. This qualification gives the right to work in scientific and research, design and building organizations, and many other institutions.

## Registration of temporary residence - 40 US dollars Accommodation - 30 US dollars a month

Study Aeronotic Engineering

Aviation College

Specialities and Specialisations

No	Specialties and specialisations	Qualification	Period of training
<b>Aircraft and Aircraft Equipment Sub department</b>			
1.	Maintenance of aircraft and power plants	Engineer	5.5 years
2.	Maintenance of aircraft equipment Specialization: automated systems and electric equipment of aircraft	Engineer	5.5 years
3.	Maintenance of aircraft equipment Specialization: avionics equipment of aircraft	Engineer	5.5 years
<b>Ground Flight Support Sub department</b>			
4.	Maintenance of ground flight support	Engineer. Management specialist	5 years
<b>Unmanned Aerial Complexes and Combat Control Sub department</b>			
5.	Maintenance of unmanned aerial complexes	Engineer	5 years
6.	Transport management and air transport support Specialisation: air traffic management	Traffic management engineering	