

Analytical reference

General information

The Faculty of Pharmacy was established in 1993. The faculty is provided with 35 places cost of which is fully reimbursed by federal funds and made contracts with individuals and legal entities. About 150 specialists with higher education and 20 specialists with secondary vocational education graduate each year.

The Faculty of Pharmacy also provides postgraduate training (1-year internship) with 65 places cost of which is also fully reimbursed by federal funds.

There are about 250 students who study on programs of retraining and professional development each year.

During its existence the faculty has trained more than 1,100 professionals with higher education and about 400 specialists with secondary specialized education.

The faculty has a system of continuous pharmaceutical education, which includes the basic educational programs (BEP):

- the secondary vocational education (SVE). Specialty "Pharmacy";
- the higher education program (HEP). (full-time, part-time and extramural studies). Specialty "Pharmacy";
- three specialties of internship program: Management and Economics of pharmacy, Pharmaceutical Chemistry and Pharmacognosy and Pharmaceutical technology;
- three specialties of postgraduate studies: Pharmaceutical Chemistry and Pharmacognosy, Organization of pharmacy, Clinical pharmacology;
- retraining programs for all specialties;
- professional development for specialists with higher pharmaceutical education and secondary vocational education;

The implementation of educational programs is made in accordance with the requirements of updated federal education standards.

All educational programs are developed with the participation of the largest employers in the regional pharmaceutical market and have been reviewed for compliance with international quality standard ISO 9001: 2000. Also there was the re-certification of QMS in 2009. Certificate issued by the certification body NQA Global Assurance Limited (UK).

More than 98% of graduates are employed in the specialty, and 2% are employed by medical representatives.

Graduates work in major Russian and regional pharmacy networks, in the leading pharmaceutical companies in the executive bodies of subjects of the federation and municipalities.

Personnel potential of faculty

In the implementation of the BEP there are involved not only professionals of the pharmaceutical faculty, but also great scientists and professors of Biology and Soil, Chemical, Economic, Physical, Mathematical faculties VSU. All in all, about 116 leading teachers VSU are involved in educational process. 73% of them have a science degree, 26% have rank, 18% have a doctor degree and 8% of them are professors.

Practical training facilities deserve special attention: Botanical garden and nursery of medicinal plants which is situated on its territory, nature reserve "Galichya Gora" and scientific-educational complex "Venevitinovo". Work practice bases include over 40 pharmaceutical and medical organizations of Voronezh, Regional Center of certification

and quality control of medicines, and also the companies such as LLC "Pharmtechnology plus", LLC "Farmservis" multidisciplinary innovative pharmaceutical plant JSC "Rafarma."

Material and technical base

The Faculty has a substantial number of equipment for laboratory, practical classes, for the Diploma and research.

Equipment which is used in the educational process:

Apparatus for determining the surface tension of the liquid by the compensation of additional pressure;

Standard installation FEL-12 to study the behavior of substances in a magnetic field;

Chromatography-mass spectrometer;

Differential Scanning Calorimeter;

Gas chromatograph «Crom-4" with a thermal conductivity detector;

Gas chromatograph «Crom-5" with a flame ionization detector;

Analyzer of immunoenzymatic reactions "UNIPLAN" AIFR-01, molecular biological laboratory which includes: a thermal cycler, translyuminator equipment for sample preparation and electrophoresis;

Biochemiluminometer BKL-06M for a work on a computer;

Spectrophotometer Hitachi U-1900 with software («Medozons»);

Device for a vertical electrophoresis VE-2M;

Apparatus for horizontal electrophoresis SE-1;

Tablet disintegration electronic tester Erweka ZT221;

Tablet hardness electronic tester THT – 50;

Laboratory identifier of process disintegration of tablets 545 P - AK – 1;

Microscope Mikmed 1;

Desktop tablet press machine HTM - 01 E;

Tamper table device 1.5 A;

Ocular micrometer MOV- 1 -16x;

Portable biochemical blood analyzer CardioChek;

Device for vibratory compaction of powders 545 P - AK – 3;

Device for testing of tablets and capsules dissolution RS – 1;

Apparatus for abrasion tablets;

Device for determining the disintegration of tablets and capsules RD – 1;

Device for determining of melting temperature;

Air Sterilizers GP - 20 – 3;

Tablet press model "Tabletpress 6000S";

Ultrasonic bath "Grad";

Forms for pouring suppositories on 20 cells;

Photoelectric Colorimeter KFK-2;

Spectrophotometer SF-2000;

FTIR spectrometer InfraLUM FT-08;

Chromatograph "MiLiChrome-6";

Chromatograph "Stayer" with computer;

Spectrophotometer Hitachi with PC and printer;

Fluid analyzer "Fluorat -02- Panorama";

Ionomer ANION-7010;

IR spectrophotometer "Infralum FT - 02";

Expositions (Museum of vegetation of the Central Chernozem);

Herbarium;

Expositions (Zoological Museum).

Scientific directions of faculty

Research of complexing ability of homologues of chitosan in the conditions of preparation of polymeric drugs
Research of regularities of analog conversions of aminoglycans in the creation of new anti-tuberculosis and anti-cancer and wound healing drugs
Standardization and study of antioxidant effect of herbal remedies prepared from fresh and dried plant materials.
Research of bioequivalence of generic drugs using the procedure "Biowaiver" and test "dissolution"
Phytochemicals Pharmacognostic research and standardization of medicinal plants and plant oils pharmaceutical use
Development of composition, manufacturing techniques, methods, standardization and biopharmaceutical research of new dosage forms with nootropic, anti-diabetic, antiherpetic and antibacterial activity
Preparation and standardization of immobilized forms of drugs of different groups.
Research of features of marketing and management in implementation of pharmaceutical activities;
Analysis of the market of medicinal products;
Research of problems of professional training and rational use of pharmaceutical staff
Formation of new and improvement of existing organizational and economic mechanisms in the pharmaceutical business.
Development of proposals on improving the functioning of pharmacy organizations in the pharmaceutical market, taking into account the specific socio-economic conditions
Research of local pharmaceutical markets
Monitoring of the implementation of the state policy in the field of provision of medicines.
Conducting of pharmacoeconomic analysis of regional markets
Examining issues of competitiveness and sustainability of the pharmaceutical organizations.
Investigation of the effectiveness of procurement of drugs
Phytochemical research of medicinal plants
Preclinical research safety and effectiveness of new analgesic, anti-inflammatory, local anesthetic, antiarrhythmic and immunotropnyh drugs based on polymers, amino acids, carbohydrates and derivatives of 2-aminobenzoimidazols;
The study of patterns of action of drugs in organic lesions of the central nervous system at children

The results of research work (2012-2014)

370 scientific research works have been published by employees of four specialized departments of the Faculty of Pharmacy of VSU: 118 from which are the articles published in the national press and in magazines of Higher Attestation Commission; 191 - in international, Russian and regional collections of scientific papers, 97 abstracts are published in proceedings of international, Russian and regional conferences . There have been published 35 textbooks (3 stamped the Training Association). There have been received 13 patents for invention, co-published 3 monographs. Number of magazines quoted in databases Scopus and e-library, which published the researches of employees - 33, which confirms the high scientific level of the research

Grants

There was opened small innovation enterprise "Khimicheskie innovacii" and scientific research volume made up to 700 thousand rubles in cooperation with China. The company filed an application for participation in the program "START" In May 2014.

The employees of the departments take part in applying for grants on a regular base

-The internal Grants VSU - 5 applications

- Grants of Russian scientific front - 3 applications

Laureates of the contest «Member of the Youth Research and Innovation Competition»

1 employee and 10 students of the Faculty get Scholarship of the President and

Scholarship of the Government.

Conducting own conferences and publishing activities

Advantage of scientific activity of the faculty is organization of conferences since 2003 International scientific-methodical conference "Farmobrazovanie".

All-Russian with international participation Scientific and Methodological Conference "Problems of health savings preschoolers, schoolchildren and students."

The annual regional scientific-practical conference with pharmaceutical workers'

Practical aspects of the development of the pharmaceutical market and the professional training of the Voronezh region "

Scientific journal "Herald of VSU Series: Chemistry, Biology and Medicine", included in the list of HAC, publishes books and monographs with co-researchers of other universities of Russia.

International activities

Participation in international programs and projects.

As part of the contract between the Voronezh State University and Qingdao University of Science and Technology of China there was established a small innovative enterprise LLC " Khimicheskie innovacii " on the basis of which research was conducted by 3 issues in the period from 2012 to 2013

The contingent of foreign students

academic year	all in all	including			
		Students whose tuition fees paid from the federal budget	Students whose tuition fees paid by themselves	Students from other foreign countries	Students from CIS countries
2013-2014	26	8	18	21	5
2014-2015	30	15	15	22	8

At the faculty there are students from foreign countries (Morocco, Vietnam, Syria), CIS (Turkmenistan, Moldova, Ukraine).

The Faculty collaborates with the University of Heidelberg (Germany) in the field of pharmaceutical ethics. The Faculty supports creative links with the Faculty of Pharmacy of the Vitebsk State Medical University (Belarus), with the Kharkiv National Academy of Pharmacy (Ukraine).