

«APPROVE»



Rector of National Pirogov Memorial
Medical University, Vinnytsya

V.M.Moroz

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CONCEPT

of National Pirogov Memorial Medical University, Vinnytsya
regarding activity in providing education service,
*connected with obtaining higher education, training of professionals of
second (Master's) level of higher education*

Education level: **Higher Education**

Education qualification: **«Master of Pharmacy»**

Branch of knowledge: **22 «Health Care»**

Specialty: **226 «Pharmacy, Industrial Pharmacy»**

APPROVED by

Academic Council of VNMU

Record № 11 dated 25.06.2018

Academic Secretary of VNMU

[Signature] as.prof. O.A. Serebrenikova

Vinnytsya
2018

Training of specialists in the specialty 7.12020101 "Pharmacy" qualification "pharmacist of general profile" meets the requirements approved by the Decree of the President of Ukraine from 7.12.2000. № 1313/2000 Concept of development of protection of the population of Ukraine and the concept of its development till 2020 approved and accepted by collective of university, orders of the Ministry of Health of Ukraine № 621 2005 and № 81 from 23.02.2005. Acquisition of degree education in the direction 1202 "Pharmacy" has features, which are normatively defined by the Law of Ukraine "On Higher Education" dated 1.07. 2014 № 1556 / VII, Resolution of the Cabinet of Ministers of Ukraine № 667 dated 23.04.99 and № 1482 dated 13.08.99 and Regulations on the peculiarities of medical and pharmaceutical degree education approved by the order of the Ministry of Health of Ukraine № 35 dated 24.02.2000.

According to the state order and VNMU contracts since 2017 the Faculty of Pharmacy provides training of full-time and part-time in the field of knowledge 22 "Health Care" specialty 226 "Pharmacy, Industrial Pharmacy" qualification "Master of Pharmacy" (licensed batch - 500 people) for medical and preventive and pharmacy institutions of the area of its activity (Vinnytsia, Khmelnytsky, Zhytomyr, Cherkasy, Kirovohrad, Volyn, Chernihiv, Mykolaiv regions). There is a shortage of pharmaceutical workers with higher education in the pharmaceutical institutions of these regions, where graduates of the VNMU Faculty of Pharmacy are employed. In the Vinnytsia region alone, the network of pharmacies has more than 700 institutions, in which a significant part of employees do not have higher pharmaceutical education. The situation is similar with the provision of pharmacies by pharmacists with higher education in the pharmacy network of other areas of the VNMU.

The current state of development of pharmacy requires constant training of graduates of the Faculty of Pharmacy. The available human resources, modern material and technical base of VNMU, its educational and methodological support provide the ability of VNMU to organize at the level of state requirements and standards for diploma training and primary postgraduate specialization (internship) of general pharmacists. The need for such specialists only in the area of VNMU is 55-60 people per year.

The main task of VNMU is to increase the level of training of graduates of general pharmacist qualification, their professional adaptation to independent work in pharmaceutical institutions and treatment and prevention facilities. In modern conditions of constant increase of the nomenclature of the market of domestic and foreign pharmaceuticals, their release in drugstores without prescriptions of doctors, requirements to quality of preparation of pharmacists of the general profile considerably increased. their initial postgraduate training (internship) has the opportunity to carry out VNMU in which there is sufficient experience in training pharmacists. Obtaining a license to study in the specialty 226 "Pharmacy, Industrial Pharmacy" qualification - Master of Pharmacy, provides training in VNMU

specialists whose professional qualities will meet the needs of market conditions of the reformed health care, globalization and European integration of higher medical and pharmaceutical education.

The area of activity of VNMU for the training of general specialists (specialty 7.12020101 "Pharmacy", 226 "Pharmacy, industrial pharmacy") are health care facilities (sanitary-preventive, pharmacy, scientific-medical) of Vinnytsia, Khmelnytsky, Zhytomyr, Chernihiv, Cherkasy, Rivne, Volyn, Kirovograd, Mykolayiv regions, where there are about 6670 pharmacies. It is in these areas that graduates, general pharmacists who studied under the state order, are sent to work every year by order of the Ministry of Health of Ukraine. In the areas of VNMU's area of activity, there is a significant need for general pharmacists in connection with the reform of the pharmaceutical supply of the population and medical institutions, which is due to the privatization of most pharmacies. In Vinnytsia region alone, there are 743 pharmacies, in the VNMU area - 6670, in which the number of pharmacy workers with higher pharmaceutical education wants to be the best. In the pharmacy network of Vinnytsia region alone, the need for general pharmacists is 45-50 people annually, filling vacancies is extremely slow. The situation is similar with the provision of pharmacies of the general profile of pharmacies in the areas located in the area of the university.

In the specified areas of the zone of activity of VNMU there are no medical and pharmaceutical higher educational institutions of III-IU levels of accreditation where preparation of pharmacists of the general profile would be carried out. In Vinnytsia National Medical University named after MI Pirogov's annual training is 75 people on a contractual basis, which can not meet the needs of so many pharmacy workers in the region. For many years, the competition for admission to VNMU for the specialty of general pharmacist - 7-9 people for one place. In total in VNMU on a specialty 7.12020101 "Pharmacy" qualification the pharmacist of the general profile, 226 "Pharmacy, industrial pharmacy" qualification the master of pharmacy studies: 260 - a full-time form, and 908 - a correspondence form of training.

In 2019, the 21st issue of general pharmacists will take place. Graduates of the state form of training of previous years are employed in the chosen specialty in state pharmacies and treatment and prevention facilities.

In modern conditions of constant increase of the nomenclature of the market of domestic and foreign pharmaceuticals, requirements to quality of preparation of pharmacists have considerably increased. their primary postgraduate specialization (internship) has the opportunity to carry out VNMU, which has sufficient experience in training doctors and pharmacists. Obtaining a license to study in the specialty 226 "Pharmacy, Industrial Pharmacy" qualification - Master of Pharmacy and 7.12020101 "Pharmacy" qualification - pharmacist provides training whose professional qualities will meet the needs of market conditions of the reformed health care, globalization and European integration of higher medical and pharmaceutical education, which is

one of the areas of strategic vectors of National Pirogov Memorial Medical University, Vinnytsya.

National Pirogov Memorial Medical University, Vinnytsya (and before 1994 - Medical Institute) during 90 years of existence has become a multidisciplinary center of advanced training, specialization and postgraduate improvement of medical research and teaching staff with a significant amount of scientific and methodological, experimental, medical and advisory work in all fields of medicine. The quality of theoretical and practical training of VNMU graduates is highly appreciated by the population, the medical community of Ukraine and almost 100 foreign countries, whose citizens have acquired higher medical education.

The university was established on the basis of the resolution of the Cabinet of Ministers of Ukraine of June 15, 1994. № 408 on the basis of Vinnytsia Medical Pirogov Memorial Institute and is subordinated to the Ministry of Health of Ukraine and the Ministry of Education and Science of Ukraine. The educational institution was accredited in 1994 and re-certified in full at the IV level in 2000 with the right to determine the content of education, structure and plan of admission, assignment and award of degrees and academic titles, planning and development of research, independent disposal of appropriations, organization in its structure of research institutions and the opening of training in new specialties in accordance with the needs of the national economy of Ukraine. It is taking into account the needs of medical and pharmaceutical provision of the population of the university area of qualified dentists and medical psychologists, pharmacists, pharmacists and taking into account current trends in medicine and the organization of pharmaceutical services at the university opened dental (1996) and pharmaceutical (1996). 2000) faculties, 2004 - licensed training in the specialty "Medical Psychology".

In 2002, a special Decree of the President of Ukraine granted the university the status of a national university with its subsequent name "National Pirogov Memorial Medical University, Vinnytsya».

VNMU provides medical staff to medical and preventive institutions of Vinnytsia University Center (Vinnytsia, Khmelnytsky, Zhytomyr regions) and neighboring (Cherkasy, Kirovohrad, Volyn, Chernihiv, Kyiv) regions, trains foreign citizens from 42 countries in Asia, Africa, Latin America, Europe, CIS.

The educational activity of the University complies with the Constitution of Ukraine, is based on the conceptual principles of the National Doctrine of Education Development, takes into account the requirements of the Laws of Ukraine "On Education" (dated 05.09.2017 №2145-19), "On Higher Education" (dated 01.07.2014 № 1556- 18), "On scientific and scientific-technical activities" (dated 26.11.2015 № 848-19) and other legislative acts.

The relevance of the development of medical education in modern conditions is regulated by the Decree of the President of Ukraine dated June 25, 2013 №

344/2013 "On the National Strategy for the Development of Education in Ukraine until 2021."

VNMU, acting on the basis of the Statute approved by the Order of the Ministry of Health of Ukraine dated October 18, 2016 № 1086, and the Concept of development of VNMU for 2016-2021 (approved on 29.08.2016), clearly plans and organizes its activities in order to successfully compete in the domestic and global knowledge market.

The organization of the educational process for the training of specialists at the university corresponds to the Resolution of the Cabinet of Ministers of Ukraine dated 29.04.2015 № 266 "On approval of the list of branches of knowledge and specialties for higher education" in the field of knowledge "Health Care". Working curricula for undergraduate training of specialists of the second (master's) level of educational qualifications "Master of Medicine", "Master of Medical and Psychological Rehabilitation", "Master of Dentistry", "Master of Pharmacy" are compiled in accordance with the Model Curricula for Second (Master's) Level of Higher Education areas of knowledge 22 "Health Care", approved by the Ministry of Health of Ukraine and the CMC for Higher Medical Education of the Ministry of Health of Ukraine on July 26, 2016.

This issue became especially relevant when introducing the rating of students for academic scholarships in accordance with the Procedure for appointment and payment of scholarships as amended by the Resolution of the Cabinet of Ministers of Ukraine of December 28, 2016 № 1050 and on the basis of changes to the Procedure for use of state budget for the payment of social scholarships to students (cadets) of higher educational institutions № 740 dated 04.10.2017.

In general, the organization of the educational process and record keeping meets the requirements of the Law of Ukraine "On the Principles of State Language Policy" dated 03.07.2012 № 5029-17.

Taking into account the Resolution of the Cabinet of Ministers of Ukraine "On Amendments to the Regulations on the Unified State Electronic Database on Education" (№ 229 of April 15, 2015), the register of data on the university, educational documents, academic titles and degrees, material technical base are constantly renewed.

In its activities, VNMU is guided by the Resolution of the Cabinet of Ministers of Ukraine "On Amendments to the Regulations on the Unified State Electronic Database on Education" (№ 229 dated April 15, 2015), the Resolution of the Cabinet of Ministers of Ukraine dated March 28, 2018 № 334 qualification exam for applicants for higher education master's degree in the field of knowledge 22 "Health Care", Resolution of the Cabinet of Ministers of Ukraine dated March 28, 2018 № 275 Procedure for the use of funds provided in the state budget for international monitoring of the quality of higher medical education in 2018 ", Resolution of the Cabinet of Ministers of Ukraine of March 28, 2018 № 302

Regulations on the system of continuous professional development of health professionals, Resolution of the Cabinet of Ministers of Ukraine of August 17, 2002 № 1134 On approval of standards for the number of students (cadets)), graduate students (associate professors), doctoral students, degree seekers Candidate of Sciences, students, interns, clinical residents for one full-time position of research and teaching staff in higher educational institutions of III and IV level of accreditation and higher educational institutions of postgraduate education of state ownership Document 1134-2002-n, current edition - Edition dated 27.04. 2017.

The results of realization of "Concept of the state program of development of medical education for the period till 2020, and directions of its realization" are considered in university. Their introduction contributed to the training of medical personnel, meeting the needs of the population of Ukraine (including rural), improving the social protection of university staff, the prestige for foreign citizens to get profession of doctor in VNMU, equipping university departments with modern medical equipment, improving living conditions for students, graduate students and interns.

Particular attention is paid to improving the methodological framework and organization of the educational process at the departments of all faculties, training centers have been established for students and interns, students of the faculty of postgraduate education.

The organization of the educational process at the university is aimed at implementing the content of medical and pharmaceutical education at the appropriate educational and qualification level according to state educational standards using the capabilities of modern information technology, focused on the formation of educated, harmoniously developed personality.

Working curricula for undergraduate training of specialists of educational and qualification level "specialist" qualifications "doctor", "dentist", "pharmacist", "clinical pharmacist" are made in accordance with the orders of the Ministry of Health of Ukraine from 19.10.2009. № 749, dated November 10, 2009. № 929, dated December 7, 2009. № 930, dated December 7, 2009. № 931, dated October 29, 2009. №750. Amendments have been made to the work curricula and work programs of the specialties "medical business", "pediatrics", "medical psychology", "dentistry", "pharmacy", "clinical pharmacy" in accordance with the order "On the implementation of the list of specialties for which training of specialists in higher educational institutions is carried out at the educational and qualification levels of specialist and master ", approved by the resolution of the Cabinet of Ministers of Ukraine dated 27.08.2010 №787, dated 09.11.2010 №1067.

The organization of educational activities at VNMU is provided by: Medical Faculty №1 (specialty - "Medicine"), Medical Faculty №2 (specialties - "Pediatrics", "Medical Psychology"), Dental Faculty (specialty - "Dentistry"), Faculty of Pharmacy (specialties : "Pharmacy, industrial pharmacy"):

Area of knowledge -22 Health Care

222 Medicine - 1350 people

228 Pediatrics - 150 people

225 Medical and psychological rehabilitation Specialization Medical psychology - 100 people

221 Dentistry - 300 people

226 Pharmacy, industrial pharmacy - 500 people

The contingent of students for all forms of education is 8101 people, of which 7193 full-time students study, 908 part-time students.

At the Faculty of Postgraduate Education were trained - 2197 doctors, including 1891 people studied at the pre-certification cycles, 306 specialized. Doctors from 14 regions of Ukraine studied at this faculty. During 2018, 2277 interns studied in the internship. As of January 1, 2018, 1,368 doctors were trained in internships.

Among foreign citizens, various forms of training at the university took place: 1486 people, including - 1323 students of basic faculties, 107 students of the preparatory faculty; postgraduate studies are: - 39 clinical residents, 6 graduate students, 11 Master's undergraduates.

As of October 1, 2018, the university has 8,101 students, 2,149 interns, 2,700 cadet doctors of the Faculty of Postgraduate Education, and 68 undergraduates. 2497 students study at the places of the state order, 5604 students study on a contract basis.

In 2018, 1275 specialists (doctors, pharmacists) graduated from all faculties at the university. Among the graduates there are 221 foreign nationals. Among the graduates: 688 doctors – general medicine, 109 pediatricians, 23 medical psychologists, 164 dentists, 57 pharmacists and 13 clinical pharmacists.

During 40 years, five faculties of the educational institution have been teaching foreign citizens. The contingent is 1551 people. 3552 people from 89 countries of Europe, Asia, Africa and Latin America have graduated from the preparatory faculty in the last 7 years. 3,600 foreign graduates from 120 foreign countries received a doctor's degree. In total, the university has trained almost 40 thousand doctors, including more than 10,000 highly qualified specialists - doctors and candidates of sciences.

The university has 60 departments of basic faculties, of which 42 are clinical, Research Center with an experimental clinic (vivarium); educational-scientific and educational-scientific-medical-preventive complexes (jointly with the sanatorium Khmilnyk and the medical center of the Air Force of Ukraine); Center for New Information Technologies (which includes a computer center, computer classes, a TV studio, the ISHSHEI node, a modern printing house); specialized pathomorphological laboratory, joint with the Research Institute of Surface Chemistry of the National Academy of Sciences of Ukraine laboratory for the creation and study of new drugs based on highly dispersed silica; gastroenterological laboratory on new technologies in the diagnosis and pharmacotherapy of gastric diseases; immunological laboratory.

Over the years of existence of the educational institution, it has developed traditions that ensure the high quality of the organization of the educational process, stimulation of cognitive activity of students, objective control of training and quality of knowledge. The organization of scientific and methodological support of the educational process and professional training at the faculties takes into account the proposals received through sociological research and questionnaires of students and managers of health care in the area of the university. One of indicators of the quality of educational work at the university is a consistently high percentage of graduates who reach their destinations by state order.

It is the traditions cultivated at the departments of the university in an individual approach to students, in a combination of practical and theoretical training, high requirements to the level of training, introduced modern teaching technologies and computerization, nurtured sense of responsibility for the profession provide high authority outside.

According to the ratings of the Ministry of Health of Ukraine, the university on many indicators (staffing, facilities, results of medical licensing exams Step-1 and Step-2, methodological support of the educational process, preparation of the reserve of teaching staff, inventive activity, financial status, social protection of employees and students) refers to the leading higher medical educational institutions.

During the last 5 years VNMU publishing activity was carried out at a high level: more than 35 textbooks were published, 2 received the State Prize of Ukraine - a textbook on medical biology and surgery, 2 - submitted for the state prize, 5 - received the status of National.

The Ministry of Education and Science of Ukraine awarded the first place and awarded a special diploma by the State Rating of Higher Medical Educational Institutions of III - IV levels of accreditation in the 2017/2018 academic year in the nomination "Leader of Higher Education" of the University. In 2017-2018, following the results of participation in the open rating of popularity and quality of goods, the educational institution entered the best higher medical educational institutions of Ukraine "Top 200" - 26th place, and among medical universities - 2nd place and was awarded special diplomas and medals. The University received the "Enterprise of the XXI Century" award from the organizing committee of the EU - XXI based on the results of research conducted by international experts and information from independent sources. According to international experts, the university ranks 14th among the medical faculties of higher education institutions in Europe in terms of the quality of training of foreign nationals. VNMU is a participant in international educational exhibitions in Greece, the United Arab Emirates, Germany and Ukraine.

Expert survey on the international program "Ranking of Universities" (2017), conducted within the International Personnel Academy, accredited by the European Center for Higher Education (CER), the Joint Council of Europe UNESCO, among 166 higher state educational institutions of Ukraine VNMU - the only one of the

medical universities of Ukraine - was recognized among the 20 personnel institutes that train the most qualified specialists.

Constant communication with the health departments of the regional state administrations of the area of its activity enables the university, taking into account the needs of practical health care and pharmaceutical support, to promptly make appropriate changes in the curriculum, curricula, providing training of pharmacists in accordance with state requirements of educational standards and licensed areas of educational activity.

The concept of daily activities and development of the university for the future provides:

a) high-quality competitive selection for state and contractual forms of education of well-prepared graduates of secondary schools and secondary special educational institutions; providing conditions for them to acquire according to the degree system of knowledge in the field of medicine, the formation of highly qualified specialists, creative individuals with feelings of patriotism, self-worth, humanism and civic maturity; conducting educational activities together with specialized classes of secondary schools and colleges;

b) determination of the content of education taking into account its state standards and educational and professional programs established for the educational institution; development and improvement of methods and means of conducting the educational process in accordance with licensed forms of educational activities; humanitarian education and upbringing;

c) formation of highly qualified teaching staff capable of ensuring the quality of training according to state standards, providing medical and diagnostic assistance to the population and conducting research on topical issues and taking into account the needs of health authorities of the university; preparation of the reserve of the teaching staff through master's, clinical residency, postgraduate and doctoral studies; carrying out joint research, advanced training and internships within the framework of international relations;

d) development, improvement of material and technical base of training and scientific researches; creation of textbooks, teaching aids, publication of scientific and educational literature; introduction of modern technologies in the educational process, research and medical practice;

e) implementation of capital construction, repair of fixed assets, creation of favorable living conditions in student dormitories; promotion of a healthy lifestyle, implementation of a program of social protection of faculty, staff and students;

f) introduction of management and marketing requirements in the activities of the university in order to ensure the receipt of extra-budgetary funds for the provision of educational and other services, economical spending, maintenance of university buildings and other buildings, updating the technical equipment of the educational process and research.

Significant impact on the functioning of the university and training of highly qualified professionals in licensed specialties due to the needs of society in the relevant field (through training by state order) and the fact that higher medical education in Ukraine actually operates in a market environment and therefore providing educational services became a commercial activity. Many years of experience of the university confirms the significant demand for such educational services in it by domestic and foreign citizens. Moreover, in conditions of insufficient funding, the provision of educational services to domestic and foreign citizens plays a significant role in ensuring the financial stability of the university.

Based on the adopted concept of European integration and entry into the European educational space, the university implements the following system of measures:

- introduced state certification of graduates in the form of standardized test license exams at all stages of training (Step-1, Step-2, practice-oriented state exam, OSKI, Step-3);
- the transition to the organization of the educational process in accordance with the requirements of European and international standards and the standards of the World Federation of Medical Education;
- on topical issues of development of medical science and higher medical education, the university continues long-term cooperation under agreements with foreign educational institutions: University of Münster (Germany), medical faculty of the University of Alabama (USA); Franklin Pierce College (New Hampshire, USA), Vanderbilt University USA, Limoges University (France), University of Rome (Italy), Lodz Medical University (Poland), Belgorod University (Russia), Russian State Medical University (Moscow), St. St. Petersburg State Medical University (Russia), etc .;
- - official agreements on cooperation in the field of educational and scientific activities have been concluded with 20 foreign partner universities; the university participates in the implementation of 62 international projects; in accordance with the agreements, 367 scientific and pedagogical workers were sent abroad for scientific and teaching work; 249 employees of the university spoke at scientific conferences last year;
- - the Department of International Links of the University is actively working to attract foreign nationals to study in India, Syria, Jordan, China, Malaysia, Egypt, Tunisia, Saudi Arabia, Europe, Latin America; in this regard, business relations have been established with representatives of 67 foreign and Ukrainian companies; reform of the organization of training at the university is accompanied by modernization of educational and methodical, information support of educational process and its material base (the stomatologic clinic, medical and psychological clinic is created, 7 licensed and certified laboratories function, the Center of new information technologies is replenished with modern computer

equipment, in laboratories a unique laboratory and diagnostic equipment was installed at the research center;

- together with the Ministry of Health of Ukraine and local authorities, issues related to the establishment of a university clinic are being resolved;
- organized training of family doctors and staffing of the peripheral level of health care, in particular, the rural population;
- the material and technical base of the educational process is being modernized - in 2018, educational and scientific equipment worth 3 million 863 thousand hryvnias was purchased;
- the construction of a new library with a book depository for 500 thousand volumes was completed, for the last 2 years 3 million 123 thousand hryvnias were used for construction needs.

Competitive selection of entrants for training by the admissions committee is carried out from among graduates of lyceums and secondary special educational institutions, self-supporting preparatory courses, secondary schools and targeted graduates of rural schools and schools located in areas of controlled radiation pollution - in 2014 and anti-terrorist operation zones. The university carries out a set of activities aimed at the active adaptation of freshmen to university life. Among them: enrollment of entrants at an open meeting of the admissions committee with their acquaintance with the composition of the deans; appointment of curators of academic groups and their activities that contribute to the formation of students' rational mode of study and life in dormitories, instilling skills of independent work in the library, laboratories of departments, leisure; constant work with student groups of employees of deans' offices, acquaintance with university traditions at the solemn act of dedication to freshmen, instructions during the act lecture. Student councils of dormitories are actively involved in the educational process. Issues of the state of the educational process are constantly heard at the faculty councils, covered in the university newspaper "Young Physician".

During the study, students of the department adhere to state standards of higher medical and pharmaceutical education. Practical and theoretical training of students is carried out on the basis of educational and qualification characteristics of specialists, requirements of educational and professional programs. The training of foreign students involves their study of the features of regional pathology and pharmaceutical support of their areas of residence.

VNMU has a clear system of quality control of professional training, which includes: daily (various forms) control of training 75-100% of students of academic groups, boundary control upon completion of certain sections of the program or groups of topics, intermediate certification of students in 2-2.5 months after the beginning of each semester, final control (test, differential test, exam) with the use of tests, solving situational problems, comprehensive tests in determining the basic

training of students of 3-4 courses and comprehensive control tasks in graduation courses; consolidation of practical skills.

The perfect educational and methodical providing of preparation of pharmacists at all faculties is created 13-16 textbooks and 4-5 textbooks are published annually, methodical developments and other educational and methodical materials are constantly updated. According to the results of medical licensing exams "Step-1", "Step-2", university students show solid knowledge. The requirements of the new concept of public health development have led to the introduction of new training courses: extreme medicine, computer science, clinical immunology, chiropractic, homeopathy, militarization of the program, psycho-, pharmaceutical and physical rehabilitation.

The educational process is conducted in the state language, all plans, measures, orders of the Ministry of Education and the Ministry of Health of Ukraine on the implementation of the law "On Languages in Ukraine" have been implemented. Particular attention is paid to the humanization of education as an integral part of the formation of the doctor, and legal training.

14 professors, 34 doctors of sciences, 46 assistants are involved in the management of practice, necessary methodical materials of all levels are created. Agreements have been concluded with 47 medical institutions of Vinnytsia, Khmelnytsky and Zhytomyr regions, where 2220 places have been allocated for internships. On the ground, the internship is managed by 139 specialists who have the highest and the first certification category.

New, progressive technologies are widely used in the educational process. New, progressive technologies are widely used in the educational process, departments are computerized, the transition to network technologies is carried out - the Internet network functions, which includes the center - Internet and local networks at separate departments. . 1305 modern computers are involved, 1845 display places are deployed, mainly on the basis of modern computers (Pentium). All PCs are connected to 4 Internet channels.

The development and implementation of computer technologies in the educational process, research and management of the university is carried out for the first time among the educational institutions of Ukraine by the University Center of New Information Technologies. It includes a computer center, computer classrooms, a TV studio, a modern printing house, and an Internet site. Debugged interdepartmental use of modern computer, laboratory-diagnostic and scientific equipment, which is concentrated in the research center of the university. With the participation of laboratories of the research center, fundamental departments - biochemistry, normal physiology, biophysics, morphological disciplines and a number of clinical departments created educational - scientific complexes - morphological, biochemical, physiological, which allows to implement computer integrative programs. Together with the Khmilnyk sanatorium and the medical center

of the Air Force of Ukraine, scientific-initial-treatment-and-prophylactic complexes have been created, developing and implementing modern medical technologies.

The university has 60 departments, of which 42 are clinical. Clinical departments are located on the basis of city, district and regional medical institutions of Vinnytsia, Khmelnytsky and Zhytomyr in which 6545 hospital beds are deployed. The educational process is also carried out in the morphological building and educational building №2 with a total area of 24241 m², sports building (2225 m²), classroom building (680 m²), the premises of the research center and experimental clinic (total area 2393 m²), in the first part of a new educational building (9000 m), computer classes of the Center for New Information Technologies of the University. A new educational building with a library and a student palace is under construction with a total area of 23,718 m². The total area of training and laboratory premises, which is on the balance of the university, is 31931 m², the area of training and laboratory facilities of clinical bases located in medical institutions is 14701 m². The lecture process is held in 15 equipped with technical means of teaching lecture halls of educational buildings and clinical bases. Eight classrooms are located on the territory of the university. The morphological building and 10 departments located in it were overhauled.

Taking into account the clinical bases, the study area per student is almost 15m².

In the area of constant attention of the administration is the implementation of planned tasks for the training of highly qualified university teachers, selection and training of an effective reserve of management, department heads, rejuvenation of teachers, taking into account the basics of tender policy in Ukraine. The school has a highly qualified teaching staff. All departments of basic, professionally-oriented disciplines and graduating departments are headed by doctors of sciences.

1031 teachers work at 60 departments of VNMU, incl. 128 (12.8%) doctors of sciences, 678 (69.2%) candidates of sciences, totally 806 teachers (84.0%) have the degree of doctor and candidate of sciences, 225 (18%) teachers work without a scientific degree. At present, the average age of heads of departments is 56 years; doctors of sciences - 53 years, average age of professors - 70; associate professors - 58; assistants - 44.

The Rector's Office carries out systematic work on the rejuvenation of the leading staff of the university. For the last 4 years, 18 young doctors of sciences have been appointed and elected to the positions of heads of departments. The young employees fill the positions of 4 vice-rectors, of which: vice-rectors for scientific and medical work were elected by competition, vice-rector for University development and vice-rector for economic issues are appointed by the relevant orders.

The list of the reserve of heads of departments includes young promising teachers who successfully combine teaching and research work. All departments have an effective personnel reserve. Among the reserve for the positions of heads of

departments are 28 doctors of sciences, professors and 20 candidates of sciences, associate professors, 15 of whom are successfully working on doctoral dissertations, and the rest are collecting materials for planning doctoral dissertations. 19 departments of the university are 100% staffed with teachers with scientific degrees and academic titles, 26 departments have 2 or more doctors of sciences.

One of the factors that contributes to the improvement of the university staff is the active involvement in research and implementation of dissertations of employees who successfully combine teaching and research. In 2017-2018, 28 candidates of sciences, associate professors and 136 assistants worked on dissertations for the degree of Doctor of Medical Sciences and performed theses for the degree of Candidate of Medical Sciences.

Among the teachers of the university 1 academician of NAMS of Ukraine, 2 current members of the Academy of Sciences of Ukraine, 16 members of international academies, 10 members of the Academy of Medical Sciences of Ukraine, 8 laureates of the State Prize of Ukraine, 3 honored workers of science and technology of Ukraine, 8 honored workers Of Ukraine, 12 honored doctors of Ukraine.

Planned and purposeful personnel policy makes it possible to rotate management staffs, timely replenish departments with specialists with scientific degrees and titles and ensure a healthy moral and psychological climate in the team.

Equipping departments and their human resources will ensure compliance with basic education in the areas defined by the Resolution of the Cabinet of Ministers of Ukraine "On the list of areas and specialties for which training of specialists in higher education at the appropriate educational levels."

Research staff of the university has fundamental and applied nature, they are developed in three areas: protection of motherhood and childhood; prevention, diagnosis, treatment of chronic patients; creation, experimental researches, introduction in practice of new medicines, devices, devices. In addition to departmental teams, research is carried out by a research center deployed on the basis of the Department of Microbiology, a modern pathomorphological laboratory, a gastroenterology laboratory on new technologies in the diagnosis and pharmacotherapy of gastric diseases, a joint laboratory with the Department of Biochemistry. International scientific cooperation has been established with departments, laboratories of medical faculties of universities of Ukraine and Russia, Research Institute of Pharmacology of the Russian Academy of Medical Sciences, Czech Republic, Germany.

According to the results of research, more than 1000 articles and abstracts are published annually, including up to 300 in foreign publications, issued 14 - 16 monographs, 4-5 titles of textbooks, up to 180 patents for inventions. The university has scientific schools: physiological, pharmacological, cardiological, obstetric and gynecological, health care organizers. The University publishes a large-circulation

newspaper "Young Physician", journals "Bulletin of Morphology" (international), "Bulletin of Vinnytsia Medical University", "Biomedical and Biosocial anthropology", "Pain Medicine" Pain Medicine (Interdisciplinary, discussion, scientific and practical journal). Employees of clinical departments carry out a significant amount of counseling and treatment work on the bases of departments, in district hospitals of the region. 25 heads of clinical departments are heads of regional scientific and medical societies. The teaching staff provides more than 200,000 patient consultations and more than 10,000 surgical interventions per year.

The school conducts a set of measures for social security of students and staff. All non-resident students, family students live in dormitories. The five dormitories of the university are designed for 2836 places, the dormitories are located on the campus. According to the norms, the university is provided with seats in 4 canteens (830 seats) and 7 cafeterias (310 seats). There is a university sanatorium for 50 people, two health and sports facilities (total area of 1172 m²), designed for the simultaneous stay of 200 people. The university has a 50-meter shooting range, weightlifting hall, gym, sports fields, stadium. Assistance is constantly provided to students from low-income families, university retirees, student families, sick staff, amateur artists and sports teams. Medical care for students is organized in treatment and prevention facilities, on the basis of which there are clinical departments.

The university has 20 amateur art groups, creative associations, KVN teams, 10 sports sections. Every year 80-85 events are held by amateur art groups for students, the population of Vinnytsia and the region.

The educational institution has no arrears of wages and stipends, related payments to pensions and other funds and in payments for energy.

Taking into account the provisions of the "Concept of Health Care Development of Ukraine", which is a program of health care reform in Ukraine, and based on the university's educational process base, staffing, the administration has planned to solve such problems in the future. activities:

to improve the quality of student training by improving the material and technical base, the use of modern technologies in the educational process, the introduction of better forms of knowledge control;

- pay special attention to the training of family doctors, ensure the proper pace of training of scientific and scientific-pedagogical staff at all levels, especially doctors of sciences;

- to develop research of fundamental and applied nature, aimed at solving acute problems of preserving and improving the health of the population;

- to intensify the efforts of the departments, especially the newly created ones, for in-depth study and use of the achievements of scientific schools that have higher and more stable results of educational-methodical, scientific, treatment-and-prophylactic work and successfully train scientific staff;

- complete the reconstruction of the university stadium and sports grounds;

- to carry out work on re-equipment of own university clinics and educational drugstore on manufacturing of medicines.

Teams of 49 departments of the Faculty of Pharmacy and Medicine № 1.2 involving 729 teachers are involved in the training of general pharmacists. Among them: 96 doctors of sciences (13.2%), 438 candidates of sciences (60.1%). Among the teachers of the departments where interns will be trained - pharmacists of general profile 534 people (73.3%) have a scientific degree and academic title. At 58 departments of VNMU - 847 teachers, including 106 (12.5%) doctors of sciences, 489 (57.7%) candidates of sciences, only 595 teachers (70.3%) have the scientific degree of doctor and candidate of sciences.

The University has a modern, defined by the licensing requirements, material and technical base, educational and methodological and staffing for successful training in the specialty 226 "Pharmacy, Industrial Pharmacy" - qualification Master of Pharmacy full-time education. Training of masters is carried out at the departments of the Faculty of Pharmacy and Medicine № 1, 2 and on the basis of treatment and prevention facilities located in Vinnytsia and pharmacies of various profiles (pharmacies, pharmacy warehouses, control and analytical laboratories, pharmaceutical companies, botanical garden, regional clinical hospital named after MI Pirogov, military medical center of the Ministry of Defense of Ukraine "Health", regional dispensary, city clinical hospital № 3). As bases of correspondence training of interns of pharmacists of the general profile are defined: the subsidiary Interhospital pharmacy № 265 "of Khmilnytsky RTMO, the municipal enterprise Tomashpilska interhospital pharmacy, Lityn central district hospital, the municipal enterprise" Yampil interhospital care located in the city above " health. Among the bases of correspondence training in Vinnytsia - the joint Ukrainian-Spanish enterprise "Sperko", pharmacy enterprise "Medicines", Open Company "Biomedica", Open Society "Vinnytsiapharmacija", Open Company "Medicinal plants", Open Company "Scientific and medical center Adonis", Open Company Biosan Medical Research and Production Center, Ukrmed Vinnytsia PE, pharmacies: № 8, № 214 and Avicenna pharmacies. Interns will also be trained in large district and central district pharmacies located in the cities of Bar, Bershad, Zhmerynka, Yampil, Lityn, Kalynivka, Tomashpil, Khmilnyk, Vinnytsia region. The bases for the training of interns are also defined: CJSC "Pharmacy Warehouses Pharma Kyiv (Kyiv)" Scientific and Biotechnological Center "Enzympharm" (Ladyzhyn).

Correspondence training of general pharmacists will be carried out under the guidance of heads of pharmacies and pharmaceutical companies, pharmacists of the highest and first category. It will also be carried out in some pharmacies of Ivano-Frankivsk, Kirovohrad, Cherkasy, Chernivtsi regions.

The university has a modern educational-methodical, material-technical, laboratory-diagnostic and information base of primary specialization in the Internship. In addition to 7 departments with their modern equipment and staff, the

following are involved in the training of interns of general pharmacists: the Center for New Information Technologies with a computer park with 1541 modern PCs connected to the Internet, a research center with 7 certified licensed laboratories, an experimental clinic, diagnostic center, center of medical and psychological assistance, institute of rehabilitation of the disabled - scientific-educational-medical complex, dental center, center of reproductive medicine.

The assessment of the training of general pharmacists is carried out by the state attestation commission. Their certification will include: basic control, computer final testing and examination with a test of knowledge and skills, assessment of practical skills, the level of mastery of the internship curriculum. Based on the results of the exam and taking into account the assessments of the previous stages of certification, a decision will be made on the level of training of the intern, assigning him the qualification of general pharmacist and master of pharmacy and issuance of a certificate entitling him to hold an adequate position. I № 93 dated February 26, 2007.

The curriculum for the training of general pharmacists was created on the basis of industry standards "On Higher Education" dated 17.01.02, resolutions of the Cabinet of Ministers of Ukraine № 65 dated 20.01.98 on higher education and dated 07.08.98, № 1247 On state standards of higher education, order of the Ministry of Education and Science of Ukraine dated 31.06.98 № 285 On requirements to state standards, order of the Ministry of Education and Science of Ukraine dated 24.02.2000 № 35 On peculiarities of medical and pharmaceutical education, order of the Ministry of Education and Science of Ukraine dated 02.06. 93 № 161. The list of specialties and terms of preparation are defined by the order of the Ministry of Health of Ukraine from 23.02.2005 № 81 and the changes brought to it (orders of the Ministry of Health of Ukraine № 621 from 20.11.2005 and № 93 from 26.02.2007) .

Thus, the state of personnel, teaching and logistical support of VNMU fully meets the licensing requirements and is sufficient for successful educational activities in the field of primary postgraduate specialization (internship) in the basic specialty in the field of knowledge 22 Health care specialty 226 " Pharmacy, industrial pharmacy", qualifications - Master of Pharmacy with the right to train foreign citizens.

Teaching fundamental disciplines of medical and biological direction - medical botany, biology with basics of medical genetics, normal physiology, microbiology with basics of parasitology, biological chemistry, normal anatomy with basics of histology, pathological physiology with basics of pathoanatomy, for foreign students - a course - tropical infections on the basis of relevant departments, specialized laboratories and other departments operating at the university (Research Center) and educational and scientific complexes: biochemical, physiological, morphological - at the departments of medical and biological profile 86.2% of teachers have a degree and title, among their employees are 20% of doctors of

sciences and 66.2% of candidates of sciences. Equipping departments and their human resources will ensure compliance with basic education in the direction defined by the Resolution of the Cabinet of Ministers of Ukraine "On the list of areas and specialties for which specialists are trained in higher education at the appropriate educational levels."

The bases of the educational process on the technology of medicines are defined as equipped with modern equipment and with sufficient production areas, located in the city of Vinnytsia association "Vinnytsiapharmacy", OJSC "Vinnytsiapharmacy", VOKP "Pharmacy", Ukrainian-Spanish pharmaceutical company "Sperko"; pharmacy №314 (90 sq.m) - pharmacy technology of drugs and homeopathic medicines, pharmacy №285 (area 70 sq.m) - preparation of children's dosage forms, regional enterprise for the production of galenic drugs (area 500 sq.m), which mastered release of about 60 names of drugs. Other 13 pharmacies operating in Vinnytsia are also involved as training bases, if necessary.

Training in medical botany, pharmacognosy is organized with the use of educational areas of university departments of medical biology and biochemistry with the involvement of specialists with appropriate qualifications; Herbariums of medicinal plants from the funds of the Vinnytsiapharmacy association and from the botany course of the Department of Medical Biology will be used. Classes will be held on the basis of the Vinnytsia Botanical Garden (200 hectares), where the cultivation of medicinal plants (marshmallow root, valerian root, chamomile, echinacea, etc.) has been practiced for many years, with their further processing in the production of galenic medicines.

The issue of allocating a plot of land to the university for the purpose of growing medicinal plants and their use in the educational process is being resolved. The climatic zone of Vinnytsia region is favorable in this respect.

Teaching disciplines: pharmacology, clinical pharmacology, pharmacotherapy and clinical biopharmacy, general pharmacokinetics, pharmacokinetics, basics of medical knowledge, hygiene with the basics of epidemiology, basics of health care organization will be conducted with the participation of teachers of pharmacology and clinical pharmacology, experienced teachers of clinical departments, departments of general hygiene, social medicine and health care, which are 100% staffed by specialists with academic degree and title. At the Department of Pharmacology and the course of clinical pharmacology there are 4 doctors of sciences, 8 candidates of sciences. The department is equipped with the necessary equipment, its staff has extensive experience in searching for biologically active compounds of chemical synthesis products and in-depth study of phenycaberan and benzofurocaine, their pharmacological properties. The State Center for Medicinal Products allows the clinical use and production of fenicaberan, benzofurocaine and vinborne studied at the Department of Pharmacology. Developments of teachers of the Department of

Pharmacology are protected by 10 patents (USA, England, Canada, Germany, France, Russia).

Teaching of fundamental disciplines of physicochemical direction - biophysics, higher mathematics, mathematical statistics, chemistry (inorganic, pharmaceutical, organic, analytical, medical, physical and colloidal), clinical biochemistry - will be provided mainly by teachers of the Faculty of Pharmacy and the University. , Center for New Information Technologies, which by 77.3% are staffed by teachers with a degree and title. Among the teachers of this field are 3 doctors of sciences (13.6%) and 14 candidates of sciences (63.7%). The basis for the educational process on physical methods of analysis, chemistry (organic, analytical, physical and colloidal), in addition to the departments of biological chemistry, medical physics is a university-compatible problem laboratory of the Research Institute of Surface Chemistry of NAS of Ukraine to study medical and biological properties of fine silica. The staff of the laboratory created drugs that are protected by 5 patents. The laboratory is equipped with the most modern computerized laboratory equipment, in particular: enzyme-linked immunosorbent assay (USA), liquid chromatograph (USA), infrared spectrophotometers, two-beam spectrophotometer, gas chromatograph, calorimeters, FECs, centrifuges and more. Employees of the departments of biochemistry, pharmacology, biology, a number of clinical departments are involved in research work in the laboratory, where the organization of the educational process with future clinical pharmacists is planned.

The existing pharmacy network in Vinnytsia for many years is the basis for industrial practice for students of Zhytomyr Pharmaceutical School (specialties "Pharmacy" and "Laboratory Diagnostics"). Employees of Vinnytsiapharmacy pharmacies also have significant experience in organizing postgraduate training for graduates of pharmaceutical faculties of higher medical educational institutions. In the pharmacies of Vinnytsia, at the regional enterprise for the production of galenic drugs, 30-35 interns-pharmacists are trained every year. As bases of practice of future clinical pharmacists pharmacies of Vinnytsia, Khmelnytsky, Zhytomyr and districts of these regions will be used. In Vinnytsia region alone, the network of pharmacies includes 300 institutions of various categories.

As bases of practice at studying of discipline "Technology of medicines" the university will use production shops, the equipment of plant of biologicals of the Vinnytsia meat-packing plant and the Enzyme enterprise of Ladyzhyn. An agreement has been reached on assistance in organizing future training practice in "Drug Technology" by such enterprises as the Kyiv Chemical and Pharmaceutical Association "Darnytsia", the university provides for cooperation in this regard with the Kharkiv Chemical and Pharmaceutical Plant "Biolek".

Specialists from other universities of Ukraine are involved in teaching activities for the preparation of certain special disciplines.