

## INFORMATION AND EDUCATIONAL TECHNOLOGIES IN IMPROVING THE QUALITY OF TRAINING OF MEDICAL UNIVERSITY STUDENTS

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### ✓ *Resume*

*The paper presents information about the importance of information technology, the activation of educational and methodological activities of departments and other organizational structures of the university for the preparation of methodological support based on ICT and its implementation in the educational process.*

*Key words: educational process, information technology, electronic computer methods, online technology, professional competence.*

## ИНФОРМАЦИОННО – ОБРАЗОВАТЕЛЬНЫЕ ТЕХНОЛОГИИ В ПОВЫШЕНИИ КАЧЕСТВА ОБУЧЕНИЯ СТУДЕНТОВ МЕДИЦИНСКОГО ВУЗА

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### ✓ *Резюме*

*В работе представлены сведения о значении информационных технологий, активизации учебно-методической деятельности кафедр и других организационных структур вуза по подготовке методического обеспечения на базе ИКТ и внедрения его в учебный процесс.*

*Ключевые слова: образовательный процесс, информационная технология, электронные компьютерные методы, онлайн-технология, профессиональная компетенция.*

## TIBBIY UNIVERSITETI TALABALARINI O'QITISH SIFATINI O'SITISHDA INFORMATSIYON TA'LIM TEXNOLOGIYALARI SIFATINI OSHIRISH

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### ✓ *Rezyume*

*Axborot texnologiyalari, universitetning kafedralari va boshqa tashkiliy tuzilmalarining o'quv-uslubiy faoliyatini faollashtirish, AKT asosida uslubiy ta'minot tayyorlash va uni o'quv jarayoniga tatbiq etishning ahamiyati to'g'risidagi ma'lumotlar keltirilgan.*

*Tayanch so'zlar: o'quv jarayoni, axborot texnologiyalari, elektron kompyuter usullari, onlayn texnologiyalar, kasbiy kompetensiya.*

### Relevance

With the further development of computerization, the creation of telecommunication and multimedia technologies, the third, modern stage of informatization of education has begun, contributing to the creative development of students. Among the tasks of informatization of education, there is an increase in the quality of training of specialists, the use of active methods, an increase in the creative

and intellectual components of the learning process, the integration of educational and research activities, its activation, which contributes to motivation for learning and the use of information technologies in the professional activities of doctors of various profiles [1.3.6].

In the concept of the state program for the development of higher education until 2030, one of the main goals is "providing conditions for the formation of competitive human potential". It pays

special attention to modern educational and information and communication technologies, innovative forms and methods of teaching. The implementation of educational standards of the new generation is carried out using active forms of education. The methodological basis for the transition to new standards is the competence-based format, and the practice of its implementation requires the use of modern information and communication learning systems [2,4,5].

**The purpose** of the research is to study the main innovative teaching technologies in medical education, to develop a research concept on the use of computer technologies in the educational process of the department and to analyze the results obtained.

### **Material and methods**

The object of the study was the 3rd year students of the medical faculty, the subject of the study was the study of the influence of digital technologies on the education of students in the course of studying the discipline of hygiene.

### **Result and discussion**

Teaching hygiene and medical ecology at the Faculty of Medicine has its own characteristics. A general practitioner should be able to assess the quality of nutrition of both healthy and sick people, to study and evaluate the indicators of physical development of children and adolescents and, based on the data obtained, judge the quality of the conditions for their education and upbringing. Systematic medical control over the quality of food is necessary, first, in organized groups, in particular, in hospitals, in sanatoriums, where food is based on specially compiled menu-layouts. In this regard, the doctor should be able not only to compose the layout menu himself, but also to be able to conduct its correct analysis and propose measures to rationalize nutrition.

The purpose of the discipline is to provide students with information for mastering the methodology of preventive medicine, acquiring hygienic knowledge and skills to assess the influence of environmental factors on human and population health, the state of teeth and human oral cavity. The program in hygiene and medical ecology provides for training students for 3-4 semesters and includes 18 hours of lectures and 44 hours of practical training for the medical faculty. The training ends with an exam. The final score for the sub-discipline is made up of the student's annual progress, grades in the performance of independent work, practical skills, the results of oral response and testing.

The teachers of the department are constantly

looking for ways to improve the educational process, taking into account the specifics of the work. For this purpose, teaching aids, computer control programs are being created, and the methodology for conducting practical exercises is being improved. At the end of the cycle classes, students are tested on the material they have passed. Test control of students' knowledge allows you to quickly and reliably assess the level of preparation of students in the subject. We have developed tests for the of hygiene, the tests contain questions on the structure of nutrition, nutritional and biological value of food products and their good quality, violations of the postulates of healthy (rational) nutrition of an individual and collectives, indicators of nutritional status, quality of drinking water, atmospheric air in populated areas, the conditions of a person's stay in residential and public buildings in terms of microclimate, insolation, natural and artificial lighting, air purity and ventilation efficiency of premises, working conditions and regimes in production when working in contact with harmful and dangerous factors of the working environment, physical development of children and adolescents, individual and group indicators of health, regime and learning conditions of schoolchildren. In the learning process, modern computer technologies are used. Lectures are delivered using multimedia presentations. The topics of the lectures include information that is necessary for a doctor of any specialty, since the manifestations of the disease can lead a patient to any specialist. In addition, the lectures include the causes of the ecological crisis and its distinctive features in modern conditions, environmental factors and public health. The importance of biological circuits in the transfer of harmful substances from the environment to humans, the long-term effects of the action of harmful substances on the body. Hygienic regulation and forecasting, elements of hygienic diagnostics in the work of a general practitioner.

The student is invited to independently solve situational problems based on the results of inspection of public catering facilities, cases of food poisoning, cases of seeking medical help from production workers with various stages of vibration and noise sickness, with clinical signs of acute ichronic poisoning with various chemicals at work, exposure to ultraviolet and infrared radiation , ultra- and infrasound, and others. One of the forms of training is the writing of abstracts by students on issues that are submitted for their independent work. At the same time, students get acquainted with monographs on a particular pathology. In addition, for a more in-depth study of hygiene, a student scientific circle is working at the department.

Thus, the innovative approach sets qualitatively new guidelines in the teaching of students of the medical faculty, ensures the formation of personal formations that determine the foundations of the formation of professionalism: competence, culture of professional behavior, develops clinical thinking, the emotional-volitional sphere of the individual.

### Conclusions

1. Modern needs and tasks of e-health cause significant changes in the educational process of higher medical educational institutions, since their solution is possible only by appropriately trained specialists, which should be organized in universities.
2. Thus, the tasks of the teaching staff of the Fergana Medical Institute of Public Health in the aspect of digitalization of education and medicine provide for the activation of educational and methodological activities of departments and other organizational structures of the university for the preparation of methodological support based on ICT and its implementation in the educational process, which is one from the tasks of the educational policy of the branch for the near future.

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