



УДК: 378.016:004:[616.9+616.24-002.5]

**USE OF COMPUTER TECHNOLOGIES IN THE EDUCATIONAL
PROCESS OF TEACHING THE DISCIPLINE "INFECTIOUS DISEASES
AND PHTISIASTRY"****ВИКОРИСТАННЯ КОМП'ЮТЕРНИХ ТЕХНОЛОГІЙ У НАВЧАЛЬНОМУ ПРОЦЕСІ
ВИКЛАДАННЯ ДИСЦИПЛІНИ "ІНФЕКЦІЙНІ ХВОРОБИ ТА ФТІЗІАТРІЯ"****Davydenko O.M./ Давиденко О.М.***s.med.s., as.prof./ к.мед.н., доц.*

ORCID: 0000-0002-8897-8913

Myronuk O.V./Мироник О.В.*s.med.s., as.prof., / к.мед.н., доц.*

ORCID: 0000-0002-5717-7267

SPIN:5163-7385

*Bukovinian State Medical University, Chernivtsi, Teatral'na Sq., 2, 58000**Буковинський державний медичний університет, Театральна площа, 2, 58000*

Abstract. *The use of modern medical computer technologies in the professional activities of future specialists affects the quality of the diagnostic and treatment process and the health of the nation in our country. The use of computer technology in educational work in medical institutions of higher education is a necessity due to the current level of development of education, and a mandatory component of improving the quality of the education system in general and in medicine in particular.*

Key words: *computer technology, educational process.*

Introduction

The aim of the modern educational process is to become a future highly qualified specialist who will not only have excellent professional qualities, but will also be an intellectually developed, spiritually and morally mature person, ready to resist antisocial influences, manage personal problems, create themselves and the environment.

The modern period of development of society is characterized by the strong influence of computer technology, which penetrates into all spheres of human activity and ensures the spread of information flows, forming a global information space.

Improving the efficiency of the use of existing computer technologies in the educational process, the creation and implementation of new ones should be identified as an important component of improving the quality of education.

The use of computer technology in educational work can stimulate students' cognitive interest, give educational work a problematic, creative, research character and develop students' independent activities with the help of real objects (computer, TV, projector) and information technology (Internet, videos), to form students' ability to independently search, analyze and select the necessary information, organize, transform, store and transmit it [1-3].

Among the technologies of educational training can be distinguished the following modern technologies:

1. independent work (use of specific capabilities of the computer to increase the visibility of materials, adaptation to the level of knowledge of students and their psychological characteristics, the use of the project method, which



- allows you to independently plan, organize and control educational activities;
2. organization of communication on the basis of teleconferences and videoconferences;
 3. organization of training hours on the basis of training programs and simulators;
 4. preparation of training hours on the basis of the most up-to-date information on the chosen topic;
 5. organization of fast transfer of necessary information via the Internet (e-mail, through social networks, forums, etc.) and providing feedback;
 6. self-education of a teacher-educator, raising his professional level;
 7. development of situational role-playing and intellectual games with the use of computer technologies.

Thus, the main advantages of the electronic form of presentation of educational information are compactness, significant expressive possibilities in the presentation of educational material (video, sound, animation), interactivity, etc. Presentation of information in electronic form allows you to better structure the material, allows alternatives for its use and the organization of rapid and efficient search for the necessary information in electronic databases and libraries.

The main text

At the Department of Infectious Diseases and Epidemiology of Bukovynian State Medical University, computer technologies are used to improve and simplify the methodological support of training of VI year students in the discipline "Infectious Diseases and Tuberculosis".

VI year students at the beginning of the academic year gain access to the distance learning server in the Moodle system. Where the electronic version contains blocks of guidelines for classroom practical classes and for independent extracurricular study of topics identified through the standard curriculum "Infectious Diseases and Tuberculosis" for independent work of students on the subject of classes. In this way, they receive a theoretical information block on each topic of classes, and also have the opportunity to test self-preparation for the next practical lesson, solving test problems in the format of "Step 2", which is in each guide.

In addition to blocks of methodical instructions for classroom practical classes and for independent extracurricular study, VI year students also receive in electronic version blocks of test tasks on infectious diseases in the format "Step 2" from the website of the Testing Center of the Ministry of Health of Ukraine.

In addition, the department in the VI year for "quality" assessment of the final control uses a computer program Google form. The preparation of students during the cycle of infectious diseases for computer testing during the final module control significantly increases the level of preparation of graduates for the diagnosis and treatment of patients with infectious diseases.

Conclusions

Information technologies are becoming increasingly important in the development of our country, as well as in the leading countries of the world. The quality of diagnostic and treatment process and health of the nation in our country, and accordingly the level of economic and social development of society, its



integration into the world economic system depend on the scale and quality of use of modern medical computer technologies in the professional activity of future doctors. The use of computer technology in educational work in medical institutions of higher education is a necessity due to the current level of development of education, and a mandatory component of improving the quality of the education system in general and in medicine in particular.

References:

1. Hyrkyn I.V. Novi pidkhody do orhanizatsii uchbovoho protsesu z vykorystanniam suchasnykh kompiuternykh tekhnolohii // Informatsiini tekhnolohii № 6, 2008. – S. 25–31.
2. Innovatsiini kompiuterni tekhnolohii u vyshchii shkoli : materialy 9-oi Naukovo-praktychnoi konferentsii, 21–23 lystopada 2017 roku, Lviv / Natsionalnyi universytet «Lvivska politekhnik» ; vidpovidalnyi za vypusk L. D. Ozirkovskyi. – Lviv : Vydavnytstvo Naukovoho tovarystva im. Shevchenka, 2017. – 202 s.
3. Koval T.I. Pidhotovka vykladachiv vyshchoi shkoly: informatsiini tekhnolohii u pedahohichnii diialnosti: navch.-metod. posib. / T.I. Koval. – K.: Vyd. tsentr NLU, 2009. – 380 s.

Література

1. Гиркин І.В. Нові підходи до організації учбового процесу з використанням сучасних комп'ютерних технологій // Інформаційні технології № 6, 2008. – С. 25–31.
2. Інноваційні комп'ютерні технології у вищій школі : матеріали 9-ої Науково-практичної конференції, 21–23 листопада 2017 року, Львів / Національний університет «Львівська політехніка» ; відповідальний за випуск Л. Д. Озірковський. – Львів : Видавництво Наукового товариства ім. Шевченка, 2017. – 202 с.
3. Коваль Т.І. Підготовка викладачів вищої школи: інформаційні технології у педагогічній діяльності: навч.-метод. посіб. / Т.І. Коваль. – К.: Вид. центр НЛУ, 2009. – 380 с.

***Анотація.** Використання сучасних медичних комп'ютерних технологій у професійній діяльності майбутніх фахівців-лікарів впливає на якість діагностично-лікувального процесу та здоров'я нації в нашій країні. Використання комп'ютерних технологій у навчальній роботі в медичних закладах вищої освіти – це необхідність, обумовлена сьогоденним рівнем розвитку освіти, й обов'язковий складник підвищення якості системи освіти в цілому і в медицині зокрема.*

***Ключові слова:** комп'ютерні технології, навчальний процес.*