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# PRIORITY DIRECTIONS OF DEVELOPMENT OF SCIENCE AND EDUCATION

**MATERIALS**  
OF THE V INTERNATIONAL RESEARCH  
AND PRACTICAL INTERNET CONFERENCE

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## CONTENT

### PEDAGOGY AND PSYCHOLOGY

**Serhii Onyshchenko**

Use of Modern Computer Technologies in the Professional Training of Future Engineers-Educators ..... 4

**Мудрик А.Б.**

До питання професійної маргінальності особистості ..... 6

**Шикіта А.В., Тимошенко Т.С.**

Вплив інформаційного навантаження на особистість: психологічні та когнітивні аспекти надлишку інформації ..... 9

### MODERN INFORMATION TECHNOLOGIES

**Веселовська А.В.**

Використання сучасних інформаційних технологій на уроках української мови та літератури ..... 12

### BASICS OF HEALTH. PHYSICAL CULTURE AND SPORTS

**Беседа В.В., Марчук В.С., Ткач В.В., Топорова Р.В.**

Особливості рекреаційних засобів студентів в умовах сучасності ..... 14

**Демідова О.М., Ситнікова А.О.**

Визначення мотивації дітей середнього шкільного віку до занять фізичною культурою і спортом ..... 17

### PHILOLOGY AND JOURNALISM

**Пикалюк Р.В.**

Нативна реклама: проблеми функціонування в українських онлайн-медіа ... 20

PEDAGOGY AND PSYCHOLOGY

USE OF MODERN COMPUTER TECHNOLOGIES IN THE PROFESSIONAL  
TRAINING OF FUTURE ENGINEERS-EDUCATORS

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Modern computer technologies in education make it possible to more actively use the scientific and educational potential of leading universities and institutes, to attract the best teachers to the creation of distance learning courses, and to expand the audience of students.

The process of introducing information technology into education is quite complex and requires deep understanding. On the one hand, they play an important role in ensuring the effectiveness of the educational process, on the other hand, there may be a problem with the pace of students' assimilation of material with the help of a computer, that is, the problem of possible individualization of education.

Computer learning technologies are the processes of collecting, processing, storing and transmitting information with the help of a computer in the process of professional training of future engineer-pedagogues. To date, the following technological directions, in which the computer is present, have become the most widespread:

- means for providing educational material to students for the purpose of imparting knowledge;
- a means for determining the level of knowledge and monitoring the assimilation of educational material;
- a universal simulator for acquiring skills in the practical application of knowledge;
- a tool for conducting educational experiments and business games on the subject of study;
- one of the most important elements in the future professional activity of the student.

At the current stage, many educational institutions are developing and using both individual educational software products and automated educational systems for various academic disciplines. Automated educational systems include a set of educational and methodological materials, computer programs that manage the learning process [1].

The development of computer technologies in the last decade has provided very promising technical and software innovations for educational purposes. The productivity of personal computers has increased, which has made it possible to use multimedia technologies quite widely. It is already difficult to imagine modern professional training without these technologies, which allow expanding the areas of application of computers in the educational process.

Hypertext technology opens up new opportunities in the professional education system. Hypertext, or hypertext system, is not a collection of various information that can be located not only in different files, but also on different computers. The main feature of hypertext is the possibility of transitions through so-called hyperlinks, which are presented either in the form of specially formed text or a certain graphic image. There can be several hyperlinks on the computer screen at the same time, and each of them defines its own "travel" route.

Automated learning systems built on the basis of hypertext technology provide better learning ability not only due to the clarity of information. The use of dynamic, i.e. changing, hypertext allows you to diagnose the student, and then automatically select one of the possible levels of studying the same topic. Hypertext educational systems present information in such a way that the student himself, following graphic or text links, can use different schemes of working with the material.

It should be noted that some teachers ambiguously assess the role of the computer in the educational process. Their negative impact on the health and psyche of students is noted, excessive visualization leads to a decrease in abstract thinking, enthusiasm for the game (virtual) process does not give an idea of the reality of phenomena and their consequences, etc.

This once again emphasizes that innovative computer technologies are only a tool of the educational process, the main thing remains the teacher, who is obliged to use modern information technologies competently and expediently.

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