The Importance of E-Learning as a Tool for Independent Learners in Higher Education and Technical Colleges

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Abstract: The article highlights the importance of effective use of independent working hours using a variety of methods and tools to acquire excellent knowledge and skills in existing disciplines in higher education institutions and technical schools. It is also important to develop teaching aids, methods and recommendations that take into account the individual abilities and scientific characteristics of students in the organization of independent work, their application in practice, the development of cooperation between related and different institutions, the use of resources of advanced enterprises is suspended.

Keywords: didactic aspects, electronic textbook, theoretical material, audiovisual means

It is important for students of higher education and technical schools to get a thorough education in each subject and become qualified professionals, effectively using the independent working hours set in the curriculum, using a variety of methods and tools.

The development of teaching aids, methods and recommendations that take into account the individual abilities and characteristics of students in the organization of independent work, their practical application, the development of peer-to-peer and multi-institutional cooperation.

Today, with high demands on the quality of education, students are less and less interested in learning in traditional ways. The opportunities to actively involve them in education in a variety of ways, using interesting and visual aids, are growing from year to year. Despite the fact that vocational colleges now have modern e-learning tools, their efficiency is very low.

Advanced educational institutions are making effective use of modern computer technology and improving the quality of education. The development of the modern level of computer technology creates a wide range of opportunities for the creation of an information-learning environment, understood by a set of modern information technologies, focused on the educational process, equipped with the necessary methodological, instructional and technical tools.

The didactic aspects of the general laws of teaching and the methodological aspects of the teaching of this or that specific subject or group of disciplines are interrelated and are closely linked with the issues of e-textbook instruction.

One of the tools for shaping the information-learning environment is the creation of e-learning-methodological complex in these disciplines. The main components of e-learning - a set of methods are:

a. navigator - the program performs service functions and organizational work, ie user registration, information about the subject, monitoring the work of students, recording learning outcomes.

b. an e-learning program is a set of interconnected documents integrated into a single logical structure that includes text, static and dynamic images.

c. Automated laboratory workshop.

d. The system of testing and control of knowledge.
E-learning - the most important element of the methodological package is a textbook and a textbook that performs the function of an electronic simulator. It has a system of modules, and the modules are interconnected. The introduction to knowledge and topics is carried out with the help of the tool "Content", which describes all the topics of the course in the form of a hierarchical system.

Textbook content:
- theoretical material;
- step-by-step model exercises and problem-solving in the studied discipline - step-by-step, knowledge and skills practicum;
- Methodological recommendations for studying the course.

Each module contains hypertext that includes pictures, tables, graphs, and other information. If necessary, a calculator or math package can be called using the key.

An automated laboratory workshop is a set of instructional and methodological tools that enable laboratory work to be performed on real physical objects or on mathematical models formed using modeling programs.

The testing system is designed for intermediate and final tests in the subject. It consists of two main parts - the test constructor and the interpreter - the manual.

The test constructor is designed to create test tasks. Interpreter - the program is used to generate test tasks, conduct tests and check the results. The testing environment allows for independent work - reinforcement, display of erroneous responses, and feedback on performance.

In the independent study of students, it is possible to strengthen the knowledge, check and monitor the level of mastery by delivering theoretical materials, practical exercises and assignments with the help of e-textbooks. The use of e-learning - a set of methods creates great opportunities to improve the quality of education. One of the most dynamic forms of teaching is the use of audiovisual means to convey information. The didactic training material prepared by the leading specialist is focused on the individual characteristics of students.

Conclusion

In conclusion, information-teaching aids can be used remotely. The use of developed materials increases the effectiveness of independent work of students, and at the same time facilitates the work of the teacher.

The creation and application of educational-methodical complexes lay the groundwork for the full education of students in the natural or professional disciplines.

References

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