CREATION OF ELECTRONIC TEXTBOOKS OF GEOGRAPHY AND THE REQUIREMENTS APPLIED TO THEM

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Abstract

This article presents opinions on the creation and use of electronic information educational resources, in particular, electronic textbooks, in improving the education system in our country. Also, the requirements for the creation of electronic textbooks, the role and importance of electronic textbooks in improving the geographical knowledge of students are highlighted.

Keywords: educational system, electronic information educational resources, geography education, electronic textbooks, pedagogical and psychological requirements, methodological and technical requirements, information and communication technologies.

Аннотация

В данной статье представлены мнения о создании и использовании электронных информационных образовательных ресурсов, в частности, электронных учебников, в совершенствовании системы образования в нашей стране. Также выделены требования к созданию электронных учебников, роль и значение электронных учебников в совершенствовании географических знаний учащихся.

Ключевые слова: образовательная система, электронные информационные образовательные ресурсы, географическое образование, электронные учебники, педагогические и психологические требования, методические и технические требования, информационно-коммуникационные технологии.

Annotatsiya

Ushbu maqolada mamlakatimizda ta'lim tizimini takomillashtirishda elektron axborot ta'lim resurslari, xususan, elektron darsliklar yaratish va ulardan foydalanish bo'yicha fikr-mulohazalar keltirilgan. Shuningdek, elektron darsliklarni yaratishga qo'yiladigan talablar, o'qiuvchilarning geografiya fanidan bilim darajasini oshirishda elektron darsliklarning o'rni va ahamiyati yoritilgan.

Kalit so'zlar: ta'lim tizimi, elektron axborot ta'lim resurslari, geografiya ta'limi, elektron darsliklar, pedagogik-psixologik talablar, metodik-texnik talablar, axborot-kommunikatsiya texnologiyalari.

Due to the changes in the field of education that are taking place around the world today, it is necessary to improve the mechanisms of using electronic information educational tools in geography education, to organize the integrated presentation of information in natural and virtual form, and to conduct multimedia training. development of the methodology, establishing requirements for the content and quality of teaching geography based on modern approaches, developing technologies for periodic and continuous methodological training of geography teachers during their professional activities, and the geography of Uzbekistan It is urgent to create conditions for studying national and global achievements.

A number of scientists are conducting scientific research on the organization of modern geography lessons on the basis of the most advanced educational technologies, in particular, the creation of a new generation of electronic information educational resources and their application to educational processes. Touching on the issues of using modern information and communication technologies in education, geographers Kh.Vakhobov, N.R.Alimkulov, N.B.Sultonova emphasize that the use of information technologies in geography education is mainly implemented in the following cases: use of electronic textbooks; use of electronic maps; use of internet facilities; use of distance learning technologies [1].

Currently, the following electronic information educational resources are widely used in the teaching of geography. These are:

1. Electronic textbooks;
2. Electronic maps;
3. Educational films;
4. Multimedia resources
5. Submissions
6. Electronic control tests
7. Mobile applications and more

Among these electronic resources, electronic textbooks make a great contribution to increasing the effectiveness of geography education. Currently, many pedagogic scientists have defined the concept of electronic textbooks, developed proposals for their creation and use. In particular, according to N.I.Taylakov, the electronic textbook is created by a creative team consisting of a programmer, designer, stylist and author of the textbook, based on the current DTS, curriculum and programs, and the approved textbook [2].

Unlike traditional textbooks, electronic textbooks include not only text, but also resources such as pictures, drawings, graphics, formulas, multimedia, animations, videos, control questions and tasks, games, tests, puzzles. The electronic textbook has a certain structure, it contains functions such as searching for the necessary information, quick opening, repetition. R.Kh.Dzurayev said that the features of electronic textbooks, such as flashing, color highlighting, underlining, and sound, have a strong influence on the students' quick acceptance of information.

In order to solve these problems, it is necessary to improve the quality of the provided information and create a number of opportunities in the electronic textbook, with the help of which it is possible to change many parameters. [3]. Electronic textbooks can be used directly in the educational process and for independent education outside of class.

Electronic textbooks are characterized by the following features:
— availability of a list of questions at the end of each topic;
— simple and easy to use;
— the program is structured in a communicative form;
— enriched with video and audio information;
— the text part is created automatically;
— the presence of a department for monitoring students' knowledge;
— that the rules for using the electronic textbook are also covered.

The electronic textbook is intended for the application of the educational method based on computer technology, independent education and comprehensive assimilation of educational materials and scientific information [4] educational and scientific materials only in verbal form; educational materials in verbal and two-dimensional graphic form; multimedia guides, that is, information in three-dimensional, graphic form, sound, video, animation and partially verbal form; Scientists such as A.R. Khodzhaboyev, I.A. Khusanov have noted that it has a perceptible feature, allows the reader to enter the real world depicted in a stereo copy in the "screen world" and creates an image of movement in relation to the objects in it. It is quite common to look at electronic textbooks as a set of educational methods that allow students to learn the educational material independently. [5].

Touching on the definition of an electronic textbook, K.A. Karimov writes: "An electronic textbook is a teaching tool that contains educational content like any other didactic material." [6].

Modern means of providing educational materials are inextricably linked with the essence of such concepts as educational literature, published educational literature,

textbook, study guide, electronic form of educational literature, electronic version of the text of lectures, electronic textbook and it is appropriate to describe them clearly. Therefore, an electronic textbook is an electronic educational tool designed for the use of teaching methods based on information and communication technologies, and its use in distance education and complete and perfect mastering of educational materials in the subject. is a possible e-learning tool. In the electronic textbook, the teaching materials of the subject are used interactively, psychological and pedagogical aspects, modern information technologies, audio and video animations.

When using electronic textbooks in geography lessons, the following possibilities are realized:

- eases the acquisition of the studied materials by using other methods (by increasing the means of reception);
- adapts to the student's requirements, preparation and intellectual level;
- creates conditions for deeper learning of science due to saving time in complex calculations;
- creates ample conditions for self-examination at each stage of work;
- gives the opportunity to file or print the completed work;
- provides repeated explanations, repetitions and supporting materials as needed.
- can save time due to the use of computer support in solving various problems;
- students can take classes in the form of independent work on computers;
- the development of modern electronic tools in the presentation of educational materials creates the basis for the formation of new concepts.

Therefore, in the presentation of educational materials in geography, electronic textbooks are of particular importance as they create a wide range of opportunities compared to traditional publications.

Electronic textbooks intensify the processes of understanding and mastering important concepts and laws by using the capabilities of computer technologies.

It should be noted that electronic information educational resources, especially electronic textbooks, should be created based on the following methodological, psychological and technical requirements: [7].

Methodological requirements:

a) It is necessary to present the educational material based on the interdependence of conceptual, figurative and moving components; b) All ETAR must be strictly structured (in this, attention is paid to the fact that all educational materials of a theoretical and practical nature are presented in a certain consistency and interdependence, and can ensure that the student's activities are organized in a certain

order); s) While using EATR, the student should have the opportunity to master the educational material step by step. [7].

Psychological requirements

a) It is necessary to form the educational material in accordance with the students' physical and psychological characteristics, physiological and physical capabilities, level of knowledge, worldview; b) The presentation of the educational material in a virtual way should not only be verbal, but should correspond to the sensory (emotional) and visual conditions of the cognitive process (in this case, the role and role of attention, perception, imagination and memory in receiving educational information through EATR must be taken into account); s) Educational and informational resources in electronic form should serve to develop students' ability to think figuratively and logically.

Technical requirements:

a) The size of the main text (in pages) should not exceed 4x (the indicator represents the audience hours allocated to this subject based on the basic curriculum and programs of the subject; if the intended hours are marked with X, all other normative indicators are the same depends on the number of hours; accordingly, one lecture hour consists of a standard text of no less than four pages. All other norms serve as benchmarks; X is the benchmark b) The amount of training and questions should not exceed 2X; s) The volume of control tests (questions and assignments) should not exceed 0.5X; d) It is necessary to achieve that the amount of course topics does not exceed 0.5X; e) The size of the final control questions is determined in the amount of 0.5X.

In conclusion, we can say that the creation of electronic textbooks in geography education and their use in teaching processes serve as a factor that encourages students to acquire geographical knowledge in a deeper and more thorough manner, to increase their interest in science, as well as to increase their creativity, logical thinking, and inquisitiveness.

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