

## NEW BOOK FORMAT OF THE XXI CENTURY - ELECTRONIC TEXTBOOKS

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## НОВЫЙ КНИЖНЫЙ ФОРМАТ XXI ВЕКА - ЭЛЕКТРОННЫЕ УЧЕБНИКИ

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*Abstract.* The rapid informatization process of the education system has created both the opportunities and the need for the use of e-books in education. E-books allow students to actively participate in the learning process, to personalize their learning, to gain new knowledge and to evaluate their own abilities. The e-textbook also enriches traditional forms of learning, encompassing a large amount of teaching and learning materials and stimulating the development of new teaching methods. In our opinion, it is time to switch to electronic and interactive formats in the development of electronic aids and textbooks in universities. One of the leading directions in the use of information and communication technologies today is the effective use of computers in educational activities. The main issue in implementing this activity is the selection of e-learning resources that will improve the quality of education.

*Аннотация.* Быстрый процесс информатизации системы образования создал как возможности, так и потребность в использовании электронных книг в образовании. Электронные книги позволяют студентам активно участвовать в процессе обучения, персонализировать свое обучение, получать новые знания и оценивать свои способности. Электронный учебник также обогащает традиционные формы обучения, охватывая большое количество учебных и учебных материалов и стимулируя развитие новых методов обучения. На наш взгляд, пора переходить на электронные и интерактивные форматы в разработке электронных пособий и учебников в вузах. Одним из ведущих направлений использования информационных и коммуникационных технологий сегодня является эффективное использование компьютеров в образовательной деятельности.

*Keywords:* electronic textbook, information, education, high school, interactive methods.

*Ключевые слова:* электронный учебник, информация, обучение, высшая школа, интерактивные методы.

As time goes on, as in society and in community, there is also a need for qualitative changes in the field of education. The time has come to change the format of textbooks for higher and secondary schools. The rapid informatization process of the education system has created both the opportunities and the need for the use of e-books in education. E-books allow students to actively participate in the learning process, to personalize their learning, to gain new knowledge and to evaluate their own abilities. The e-textbook also enriches traditional forms of learning, encompassing a large amount of teaching and learning materials and stimulating the development of new teaching methods. In our opinion, it is time to switch to electronic and interactive formats in

the development of electronic aids and textbooks in universities. One of the leading directions in the use of information and communication technologies today is the effective use of computers in educational activities. The main issue in implementing this activity is the selection of e-learning resources that will improve the quality of education [1]

Textbooks used with the help of electronic devices are called e-learning resources. The benefits of e-textbooks are many different formats for their use - online or offline; Availability of textbooks by using computers, tablets and mobile phones; Visual presence - graphics, animation, interactive activities and other multimedia features; Storage of large amounts of data; Ability to make notes on texts; Convenient use - availability of search engine; Mobility - anywhere and anytime, etc.

We think that the development of such e-books for the subjects will allow simultaneous use of several books and reuse of any information at once. In particular, the use of such e-books during the teaching and learning of biology would be highly effective. These points should be taken into account when designing redundant interactive, e-learning and methodological materials and textbooks. Schoolchildren or a student studying the subject in such e-books, ranging from natural science to general biology, will have the opportunity to re-learn or compare any biological fact and event. We believe that in the near future, e-books will be widely available in the field of education. All of these opportunities have been enhancing the effectiveness of NTT (new teaching technologies), which has put them in the learning process.

Let us compare traditional textbooks and e-books:

1. The e-book can describe text search, transitions to large references, notes and selections;
2. More than 1,000 books can be stored on one device;
3. It is easy to carry because of its small size;
4. It is possible to change the font shape and size;
5. Allows you to view animated images, multimedia presentations;
6. Although e-book is more expensive than paper, electronic text is much cheaper than paper;
7. Built-in programs, speech synthesizers allow to play texts, etc.

Another feature of e-books is the ability to turn the reader into a listener, which helps to facilitate learning in different variants. By this means it is possible to direct the 21st century people to read more scientific and literary literature. Indeed, for those who use the Internet and electronic resources, the use of e-books is more appropriate [2].

It is well-known that Electronic Education Resources (EER) is an electronic form of educational content that uses various electronic mechanisms and machines to play them. The EER differs from the usual textbook, and its interactivity enables the student to work independently. EER is divided into text, textographic and multimedia". Various forms of electronic resources allow you to use both text and text and diagrams, pictures, charts, and multimedia presentations, illustrations, audio, video, animation, audio, content and interactive methods. The teaching of biology in general education schools highlights the need for early identification and planning of learning objectives for various subjects and student socialization in extracurricular activities, excursions and other activities. An important prerequisite for the achievement of the training objectives is to ensure that the content of the training is appropriate and that the adoption of new standards is widely accepted to study information technologies.

Continuous improvement of learning technologies creates new opportunities for the educational process with each passing day. The e-book or E-book — 16 Mb, which we believe will be popular in the nearest future, stores up to 3200 text pages or up to 10 medium-sized books with the help of flash memory. Doc formatted in Microsoft Word text editors, HTML or ZIP, RAR, ARJ

texts are created using HTML to create different frame structures, text and images, list and table structures, and comment and references.

With the rapid development of ICTs, each teacher must prioritize e-learning to create a better, more efficient course. The introduction of e-learning should be widely used in modern schools. At the same time, the implementation of e-lessons has led to the emergence of many projects. As an example, we can note that today electronic libraries, electronic testing systems and e-learning form the basis of today's education system. Through these lessons, children become more aware of the information available and the inaccessible objects become a live observation of learners. When using e-learning tools, you can easily follow visual materials that cannot be brought to the classroom or are not found. One of the disadvantages is that it often delays the development of creative imagination when using ready-made materials. From this point of view, the selection of methods and ways appropriate to the organization of the teaching process, and the provision of visual aids are essential [3].

An e-book or a traditional book? Wide access to the internet already affects traditional books. Thus, in the modern world, the emergence of books in electronic form, replacing paper books, along with the rich information resources of the Internet, has begun to suppress ordinary books. In particular, the fact that the new generation prefers e-books more than conventional books increases the likelihood that the internet will be able to replace certain books.

At present, the number of e-readers on tablets and other mobile devices exceeds the number of book seekers in libraries. But can e-books really replace traditional books? And why do young people prefer e-books? Many believe that electronic and paper books are not the same as products. But e-books are more convenient and accessible. Of course, as time goes on, as reading books on electronic devices is easier it is possible that it can replace paper books. Some researchers believe that e-books are becoming more and more popular in the world through electronic devices. All of this has been highlighted by the growing demand for e-books in our country. There are some drawbacks in this field. Some experts argue that an increase in e-books and a reduction in the number of printed editions will help protect against tearing off trees.

As all this increases the demand for e-books in our country, there are some drawbacks in this area. In order to bridge this gap, the teaching staff of higher education institutions need to think about electronizing their textbooks and teaching materials. Some experts argue that an increase in e-books and a reduction in the number of paper publications will protect trees from deforestation [2].

In addition, e-textbooks have search functions that speed up and facilitate the process of searching for specific information. Electronic textbooks can be easily used on portable devices, including computers, laptops, tablets and mobile phones. When you say a file in an e-book, it can include text, graphics, diagrams, and sound. E-books can be included in the tablet computer class. The difference between a tablet PC and a conventional computer is that its limited functionality is a great time for autonomous operation. Modern e-books are usually equipped with a touch screen and have a wide range of features.

Students can use electronic boards, etc., during their pedagogical practices in the secondary school. With all of this in mind, we do necessary work with the students in seminars and lectures we have been doing for two semesters about what they can do with possible technology.

Preparation for this work begins at the beginning of the semester. As a result of preparing for the seminar and our assignments in preparing our freelance work, we also focus on developing students' skills in preparing and presenting multimedia presentations.

These preparatory activities play an important role in their secondary school experience in the organization of the pedagogical process with interactive methods and technologies.

THE WORK THAT STUDENTS WILL DO TO BENEFIT NET IN SECONDARY SCHOOL

Topic	Computer equipment		Software		Place of execution
	Computer equipment	Type of use	Software	Type of use	
Physiology, composition and functions of blood	Teacher's personal., Interactive. board, MIMIO	Multi-media	Teacher's Presentation with Power Point on the topic. Crossword in HotPototos	Demonstration for the entire classroom on the big screen, in the background of the teacher's lecture. Student. group work	Biology booth
Structure and functions of the central nervous system	Teacher's personal., Interactive. board, MIMIO	Multi-media	Teacher's Presentation with Power Point on the topic. Demonstration of tests in the Mirox Test program	Demonstration for the entire classroom on the big screen, in the background of the teacher's lecture. Assignments for Students' Free Work	Smart classroom, computer class

Studies show that the main purpose of modernization of education is to give it new quality and to achieve new pedagogical results. Formation of a new educational environment on the basis of NET clarifies its methodological basis for teaching biology, reflecting a new need for professional outcomes, especially in the training of new generation teachers in biology. The analysis of didactic capabilities of e-learning resources (ETRs) has already focused on addressing the challenge of implementing an information-learning environment.

Digital libraries and electronic encyclopedias also play an important role in this area. In the context of globalization, there is a need for the latest and effective education technologies, including potential personnel. Therefore, one of the main tasks is to prepare students studying in each specialty in higher education institutions, as well as students in secondary schools in accordance with modern education standards. In this work, the teaching staff should have the potential to use the latest technology to keep track of innovations, be aware of the modern world experience, and make special efforts for it.

The biometod.net website we launched in 2015 has a rich material base for students and teachers, with ready-made examples for interactive lessons.

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