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INTRODUCTION OF MOBILE EDUCATIONAL TECHNOLOGIES INTO THE EDUCATIONAL PROCESS OF SECONDARY SCHOOLS

Annotation

In the modern world, mobile technologies are playing an increasingly significant role in various areas of our lives. Education is no exception, and the introduction of mobile educational technologies in secondary schools has great potential for improving the quality of education. This article discusses the introduction of mobile educational technologies into the educational process of secondary schools. The basic principles and advantages of using mobile applications, interactive platforms and other tools are described, as well as specific examples of research and successful practices in introducing mobile educational technologies into school teaching.

Key words: Mobile technologies, mobile education, electronic resources, distance education, quality of education, virtual environment, mobile applications.

ВНЕДРЕНИЕ МОБИЛЬНЫХ ОБРАЗОВАТЕЛЬНЫХ ТЕХНОЛОГИЙ В ОБРАЗОВАТЕЛЬНЫЙ ПРОЦЕСС ОБЩЕОБРАЗОВАТЕЛЬНЫХ ШКОЛ

Аннотация

В современном мире мобильные технологии играют все более значимую роль в различных сферах нашей жизни. Образование не исключение, и внедрение мобильных образовательных технологий в общеобразовательные школы имеет большой потенциал для улучшения качества образования. В данной статье рассматривается внедрение мобильных образовательных технологий в образовательный процесс общеобразовательных школ. Описываются основные принципы и преимущества использования мобильных приложений, интерактивных платформ и других инструментов, а также приводятся конкретные примеры исследований и успешных практик внедрения мобильных образовательных технологий в школьное обучение.

Ключевые слова: Мобильные технологии, мобильное образование, электронные ресурсы, дистанционное образование, качество образования, виртуальная среда, мобильные приложения.

UMUMTA'LIM MAKTABLARINING O'QUV JARAYONIGA MOBIL TA'LIM TEXNOLOGIYALARINI JORIY ETISH

Annotatsiya

Zamonaviy dunyoda mobil texnologiyalar hayotimizning turli sohalarida tobora muhim rol o'ynamoqda. Ta'lim ham bundan mustasno emas, umumta'lim maktablarida mobil ta'lim texnologiyalarining joriy etilishi ta'lim sifatini oshirishda katta imkoniyatlarga ega. Ushbu maqolada umumta'lim maktablarining o'quv jarayoniga mobil ta'lim texnologiyalarini joriy etish masalalari muhokama qilinadi. Mobil ilovalar, interfaol platformalar va boshqa vositalardan foydalanishning asosiy tamoyillari va afzalliklari, shuningdek, mobil ta'lim texnologiyalarini maktabda o'qitishga joriy etish bo'yicha tadqiqotlar va muvaffaqiyatli amaliyotlarning aniq misollari bayon etilgan.

Kalit so'zlar: Mobil texnologiyalar, mobil ta'lim, elektron resurslar, masofaviy ta'lim, ta'lim sifati, virtual muhit, mobil ilovalar.

Introduction. Mobile learning technologies play a major role in changing the overall learning environment. These technologies provide students with opportunities to study and learn through interactive lessons, lectures, and programs. With their help, students will be able to attend classes at their own time and place. Teachers can also use these technologies to guide and support students. This makes the learning process more effective and increases student motivation.

Modern technologies are playing an increasingly important role in the educational process, and mobile devices are becoming an increasingly common tool in people's daily lives. The introduction of mobile educational technologies in secondary schools opens up new opportunities for improving the educational process and can increase educational opportunities, provide more flexible and interactive education, and their use in education can increase the effectiveness of mobile education. and in order to attract students to active participation in the educational process, the issues of

introducing mobile educational technologies in general education schools will be discussed.

Mobile devices allow students to access learning materials anytime and anywhere. This is especially useful for school students who cannot go to school for various reasons, such as illness or long travel. Using mobile apps and online platforms, students can study course materials, complete assignments, and even receive feedback outside of the classroom.

Mobile apps and online platforms are one of the ways that can greatly help students learn course materials, complete assignments, and provide feedback. These types of applications and platforms can offer the following services:

1. Study materials:

- Khan Academy: Online lessons and tasks in mathematics, physics, chemistry, history, mathematics and many other subjects.

- Coursera: Courses from many universities, compiled by experienced professors.

2. Tasks and tests:

- Quizlet: A platform for learning words and creating tasks.

- Google Classroom: To send assignments to students, grade them and see the results.

3. Communication between students:

- Edmodo: A platform for sharing information and assignments for students, teachers and parents.

- Discord: Used for chat and voice communication between students.

4. Feedback:

- Flipgrid: Students can answer questions, comment and express their opinions through videos.

- Padlet: Students can create virtual boards to share ideas and feedback.

5. Interactive lessons:

- Zoom and Microsoft Teams: for conducting interactive lessons through video conferences.

- Nearpod: Teachers can make lesson materials interactive for students to work with.

6. Information platforms:

- Wikipedia: Get information about many topics from around the world.

- YouTube: Video lessons for visual explanation of educational material.

Students and teachers can use these types of apps and platforms to study their lessons, complete assignments, and provide feedback. These types provide easy and effective methods of online education.

Mobile learning technologies provide a wide range of interactive tools and applications that make learning more fun and engaging. Students can use mobile devices to create multimedia presentations, interact with virtual models, solve interactive problems, and play games, which ensures active participation and increases learning motivation.

Mobile learning technologies allow teachers to adapt the learning process to the individual needs of each student. With the help of special applications and programs, the teacher can create a personalized curriculum, offer additional materials and assignments, and monitor the progress of each student. It helps students develop their skills according to their individual needs and learning speed.

Mobile educational technologies help to develop cooperation between students and teachers. Through mobile apps and online platforms, students can share knowledge, work on group projects, and discuss academic issues. It develops communication, cooperation and critical thinking skills.

Literature analysis. In the field of computing systems theory in the 70s of XX century American scientist Alan Key proposed "Book-sized computer" Foya did with the advent of pocket computers in the 1990s from mobile learning projects and mobile learning for students observed use. Learning from the network based on mobile technology. [2.Number I. S. Mobile learning and learning of foreign languages [Text]. // Theory and practice of education and contemporary mire: material III Mejdunar. Nauch. conf. (St. Petersburg, May 2013). — SPb.: "Renome", 2013. —S. 164-167.]

It was thoroughly studied in the scientific research works of V.A. Kuklev. Research from distance education in the WiMAX wireless network based on mobile devices at work use and work on Intel Classmate computers for children information on Also M.A. Grigoryeva computer science in mobile computer systems in scientific research study, mobile systems in Saville-Smith, G.Stead and G.Solley projects on the basis of the issues of organizing the study of mathematics and linguistics studied. [3.Kuklev V.A. Stanovlenie sistemy mobilnogo obucheniya v otkrytom distance education.]

Research methodology. When we talk about mobile technology, we usually mean all kinds of gadgets, applications, processors, batteries, displays.

Indeed, innovations in the field of mobile technology, new gadgets and applications are now occupying a large place in everyone's life. Here are a few factors that are important when choosing gadgets, apps, processors, batteries, and displays:

1. Smartphones and tablets:

- New models and brands: Big companies (such as Apple, Samsung, Huawei, Xiaomi, Google) release new smartphones and tablets every year.

- Cameras and Augmented Reality: New technologies in the photography and video industry, for example, enhancing the augmented reality experience through small cameras.

2. Gadgets and portable devices:

- Smart Watches and Fitness Trackers: Smart watches with new features and designs focused on personal health data, sports and medical monitoring.

- Value time asked and bluetooth earphones: Value time asked and bluetooth ears with new technologies for high quality audio and continuous use.

3. Applications and platforms:

- 5G Technology: New smartphones and tablets are being provided with additional features for 5G technology.

- Major Applications: Programs and applications have been expanded and updated to work well in every environment, including travel, education, medical and sports aspects.

4. Processors and batteries:

- High-Performance Processors: High-Performance Processors in every new smartphone, tablet and laptop, combined with significant technological updates.

- Quick Charge Batteries: Highly energized and quick charge batteries for superior product quality and long-lasting performance.

5. Displays and graphics:

- Amoled, OLED and Additional innovations: Amoled and OLED displays for bright colors, best contrast and energy efficiency.

- New display technologies with faster refresh rates of 120Hz and higher.

Every innovation, new technology and new products gives users access to better and modern technology. You can take advantage of the new technologies that matter most to you by managing your talents and needs. It's all fun and exciting, mobile technology has come a long way, especially in the last decade, which has seen high-quality growth. Mobile devices have become smaller, more powerful and more useful. They have penetrated into all areas of our life and their role is increasing more and more. The availability of all kinds of smartphones, tablets, e-readers, and now even smart watches helps them spread rapidly around the world. In addition, mobile devices are becoming increasingly accessible as their use is central to both traditional and non-traditional education. Mobile devices of the distance education platforms being created can be used through one of the modern methods.

Analysis and results. In the modern world, almost every student of a secondary school has a mobile device. In addition, school students use mobile devices not only for entertainment or to obtain various information, but also to solve various educational problems. Recently, the emergence of special applications for learning is seen as an opportunity to use such mobile applications in the general education process. The analysis of world trends shows the viability of using mobile applications in educational activities to solve various pedagogical problems, to organize remote access to network and specialized resources and services of educational institutions. The timely implementation of mobile

technologies in the educational environment is related to the following conditions: the high level and dynamics of distribution of mobile devices (it is not unusual when one user has two or more devices), their constant interest. access, media content, and the ability to transform related content into the infrastructure of an educational and research space. There are two main concepts of using mobile devices in education: BYOD (bring your own device) and GYOD (give your own device). BYOD is "bring your own device", in which students bring their own devices. GYOD - "give your device", students are given mobile devices.

The following advantages have been noted for BYOD:

1. Ease of use Any mobile device, in addition to technical characteristics, has an appearance with additional features that suit the user, so it is difficult to choose suitable devices for all users when making mass purchases.

2. Technology obsolescence The market for mobile devices is developing very quickly, and new devices are emerging that are superior to the previous generation. Educational institutions cannot afford to upgrade mobile devices so quickly.

3. Personal use of devices - students use mobile devices for personal purposes.

Among the shortcomings, it should be noted that currently not all students have the necessary tablets and smartphones.

The whole problem for GYOD lies in the budget of the general educational institution, which will need to be increased to provide mobile devices to all students [2].

Opportunities of mobile applications for educational institutions.

- "Mobile diary" function.
- Interactive online schedule of classes and lessons, tests.
- Notifications about delivery deadlines and results of control work.
- notifications about changes in the educational process.

- rapid use of methodological and educational materials.
- Integration of modules for express learning of foreign languages.
- convenient use of listening techniques.
- Easy monitoring of students' knowledge using an online test.
- Use of additional interactive modules created for each subject in the educational process.

The use of mobile applications in the educational process affects another important problem - the diagnosis and health care of students.

The activation of mobile technologies has led to the creation of effective diagnostic programs that can monitor the physical and psychological condition of students. Special attention should be paid to mobile systems for personalized medicine. Their potential was initially focused on use in aerospace medicine. Currently, personalized medical technologies can be used widely, including for students in educational institutions and interconnected with mobile applications in the field of education.

Conclusion. The introduction of mobile educational technologies into the educational process of secondary schools has many advantages. They expand access to learning, make learning interactive, personalize the learning experience, and encourage collaboration and knowledge sharing. At the same time, some issues related to the implementation of mobile learning technologies should be considered, such as the availability of equipment, ensuring security and controlling the use of devices during training. In general, mobile educational technologies are a powerful tool capable of significantly enriching the educational process and increasing educational efficiency in secondary schools. Proper implementation and use of these technologies requires the support of school administrators, teacher training, and the provision of necessary resources.

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