

SYSTEM FOR TECHNOLOGIZATION OF THE CONTENT OF EDUCATIONAL MATERIALS

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Abstract: Today, the use of new technologies in education creates opportunities not only to make the educational process more effective and interesting, but also to further deepen the process of students' learning. The system of technologization of educational materials is an important step towards this goal. In this article, we will talk about the importance of the system of technologization of educational materials, its main principles and advantages.

Keywords: Technologization of the content of educational materials, Technology, Interactivity and interesting learning process, Personalized learning, Convenient and fast access.

Main part: The system of technologization of educational materials is the presentation of educational materials in digital format, interactive and dynamic forms in the educational process, as well as the introduction of tools and technologies that help effectively organize pedagogical processes. This system includes the Internet, digital platforms, computer programs, mobile applications, virtual classrooms, online courses and other technological innovations.

The main goal of technologization of educational materials is to increase the effectiveness of education, to provide students with modern knowledge and skills. In this regard, interactive methods, distance learning and self-learning opportunities play a greater role compared to traditional forms of education.

Main Advantages of Technologically Advanced Educational Materials

1. Interactivity and an interesting learning process

Through technological tools, students can learn the material not only by reading, but also through various interactive exercises, games and simulations. For example, through virtual laboratories, mathematical simulators or interactive study of historical events, education can be made more interesting and effective. This arouses deep understanding and interest in students.

2. Personalized education

In a technologically advanced system, educational materials can be adapted to the individual needs of students. Students receive education based on their level of knowledge, interests and learning styles. For example, some platforms automatically detect students' mistakes and offer special exercises to correct them.

3. Convenient and fast access

Digital educational resources can be accessed at any time via the Internet. This allows students to study from anywhere and at any time. Through distance learning, various educational materials and resources can be accessed from all over the world, which makes the process of acquiring new knowledge easier for students.

4. Introduction of new teaching methods

In addition to traditional forms of teaching using technologically advanced systems, new pedagogical methods can be implemented. These include, for example, blended learning, flipped classroom, gamification and other innovative methods.

5. Support for teachers

Teachers are provided with all the necessary tools to create electronic educational resources and conduct lessons interactively. For example, teachers can use online tests, interactive presentations, video tutorials, and other resources to make their lessons more effective. Teachers can also automatically assess and analyze the results of the lesson.

Main Types of Technology-Enhanced Learning Materials

- ✓ Electronic Textbooks and Manuals
- ✓ Digital textbooks, manuals presented in pdf or interactive formats allow students to conveniently study the material. These textbooks can be enriched with multimedia elements, videos, and animations.
- ✓ Online Courses and Video Lessons
- ✓ Video lessons and online courses on platforms such as YouTube, Coursera, and Udemy provide students with new opportunities to gain knowledge. Such materials allow students to study at their own pace, review the lesson, and complete practical exercises.
- ✓ Virtual Laboratories and Simulations
- ✓ Some subjects, such as natural sciences and technology, provide the opportunity to conduct practical experiments using virtual laboratories. This helps students conduct scientific experiments even in places where real laboratory conditions are not available.
- ✓ Tests and assessment systems

Electronic tests and assessment systems are widely used to assess student knowledge. They allow students to assess their knowledge in real time and provide automatic analysis of the results.

Key Stages of Implementing Technology-Enhanced Learning Materials

1. Creating a Technological Infrastructure
2. It is important to create the necessary infrastructure for the successful functioning of a technology-enhanced education system. This, in turn, means the availability of high-speed Internet, computers and mobile devices, as well as access to online platforms.
3. Teacher Training
4. Regular refresher courses and trainings should be organized for teachers to effectively use new technologies. This, in turn, will create the opportunity to teach lessons based on modern methods and interest students in technologies.
5. Preparing and adapting learning materials
6. Learning materials, including textbooks, tests and manuals, should be prepared in electronic format and adapted to create convenient and easy access for all students.
7. 4. Testing and Analysis
8. To assess the effectiveness of a technology-enhanced system, it is important to constantly analyze the learning process of students, monitor the results and improve the system.

The main purpose of educational and methodological use of electronic resources is to form modern textbooks created on the basis of computer programs, information and educational methods, to increase the efficiency, quality and effectiveness of the educational process using modern information and pedagogical, information and computer technologies. The widespread use of electronic textbooks is a source of organization, in a certain sense, their libraries, the introduction of distance learning methods into education and their use in the global e-learning system. Educational and methodological materials created for independent learning in electronic resources should be used using automated software. Automated educational materials are provided to students, provide

THE MULTIDISCIPLINARY JOURNAL OF SCIENCE AND TECHNOLOGY

VOLUME-5, ISSUE-1

information on relevant topics and control their knowledge. Depending on the results of controlling knowledge at different levels, tasks are recommended to students. With the help of automated learning tools, students can improve and improve their knowledge without the help of a teacher

Conclusion: Systems that integrate educational materials into technology create great opportunities for improving the quality of education, making the learning process for students more effective and interesting, as well as providing teachers with new pedagogical methods. Through technology-based systems, students will have an individual approach, interactive lessons, as well as the opportunity to learn through distance learning and online resources. Such systems will help bring education to the level of modern requirements and create new opportunities in the field of education in the future.

REFERENCES:

1. Abduqodirov A. A., Pardaev A. H. Масофали ўқитиш назарияси ва амалиёти [Theory and practice of distance learning]. Monograph. – Tashkent: Fan, 2009. – 146 p. (in Uzbek)
2. Alekseev V. E., Usmanov V. V., Frolov V. M. Рекомендации по разработке учебных пособий для дистанционного обучения [Rekomendatsii po razrabotke uchebnykh posobiy dlya distantsionnogo obucheniya]. – Penza: PGTI, 1998. – 256 s. (in Russian)
3. Toshtemirov D. E. Таълим портали: яратиш тамойиллари, мазмуни ва фойдаланиш методикаси [Educational portal: principles of creation, content and methods of use]. Monograph. – Gulistan: Gulistan University Press, 2015. -156 b. (in Uzbek).
4. Toshtemirov Doniyor Eshbaevich, Niyozov Muhammad Bakhronovich, Yuldashev Ulmasbek Abdubanopovich, Irsaliev Furkatjon Sherali's son. Resource support of distance course information educational environment // Journal of Critical Reviews. ISSN- 2394-5125. Vol 7, Issue 5, 2020, pp. 399-400.