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УДК [371.3+371.64/.69]:004

Н. О. Ветлугина, С. Радлински

N. O. Vetlugina, S. Radlinski

*ФГАОУ ВО «Российский государственный профессионально-педагогический университет», Екатеринбург
Коннектикутский колледж, Нью-Лондон, Коннектикут, США
Russian state vocational pedagogical university, Yekaterinburg
Connecticut College, New London, Connecticut, USA
vetlugina_no@rambler.ru*

СОВРЕМЕННЫЕ СРЕДСТВА ИНФОРМАЦИОННО-ТЕХНОЛОГИЧЕСКОГО ПРОЦЕССА ОБУЧЕНИЯ

MODERN MEANS OF INFORMATION-TECHNOLOGY LEARNING

Аннотация. Рассматриваются современные средства, формы и методы информационно-технологического процесса обучения. Утверждается, что развитие и использование мобильных технологий – это одна из главных тенденций совершенствования информационных технологий.

Abstract. Modern means, forms and methods of information-technology learning are viewed in this article. Authors admit that the development and mass implementation of mobile applications is one of the trends of development of information technologies over the last years.

Ключевые слова: информационно-технологический процесс обучения, обучающая медиасреда, «умные» технологии, «облачные» технологии.

Keywords: information-technology learning, educational media environment, “smart” media devices, cloud technologies.

Modern means, forms and methods of learning objectively achieve the information-technology stage of its development. In this regard, the organization of training in information and communication educational environment and the choice of educational technologies introduce new requirements for the training of future teacher [1]. Teacher’s ability to absorb new knowledge, to navigate in the information field, using ICT tools, to improve constantly, to solve the practical problems in communication becomes an important criterion of assessing the competence of teachers.

Adapted and specialized media resources make up the educational media environment. Sets of “smart” media devices with built-in intelligence allow the subject using them not just to

read the information from them, but to conduct an interactive dialogue with them, to build constructive interaction with them in real-time. They are smart phones, interactive boards, tablets, etc., working autonomously or independently under the control of their own operating systems.

The use of cloud technologies and network services based in the learning process and also the construction of methodical system of training based on them will be an effective tool for creating not only the regulatory competencies [1], but also the competences in the field of cloud technologies.

In addition, it is necessary to determine the most effective conditions and forms of organization of educational students' activity using cloud-based technologies. In these circumstances, the ICT-competence of teachers of computer science in the field of cloud technologies allowing to improve the quality of education in general, in particular his knowledge and ability to organize his professional and teaching activities at ICEE becomes popular, which implies the ability to select and use effectively Wikis, web services of Internet-based cloud technologies which are modern and advanced for learning.

The intelligent Smart systems suggest the interactive participation of all the subjects of teaching in the dialogue with them. In this dialogue, Smart resource can not only be reproduced but also changed, modified. The order and the shape of reproduction can be modified [3]. Moreover, the teacher can re-create the Smart object according to the previously prepared model. A teacher can modify, change, complement and save it as a Smart object, perhaps, a Smart resource.

On the one hand, the teacher in Smart education becomes a kind of coordinator, navigator. The teacher helps the students to create individual learning paths, coordinates their implementation and, thus, partially becomes free from routine work. On the other hand, however, it also means the increasing of differentiation and individualization, on the basis of differences in individual learning interests and needs, abilities, peculiarities of information perception (Smart resources), the motivation of subjects of education for cognition and learning for Smart learning, self-education. Therefore, the actual load on the teacher is greatly increased: traditional classroom lessons are supplemented by individual lessons, the process of navigation, coordination and control.

Mobile learning provides the opportunity to introduce the interactive forms of learning in the educational processes to provide faster and easier access to knowledge, on the one hand, and the formation of the competence of proficiency in modern IT-technologies for solving the communication tasks, on the other hand. The development and mass implementation of mobile applications is one of the trends of development of information technologies over the last years, that teachers need to possess.

The concept of “the cloud” is not a product of Smart technologies. Many network systems in communication environment, in the sphere of Internet offer to store information in the “cloud” allocated to a specific user or group of users in the space on a network server. This space seems to be fixed for them and becomes a supplement to their material carriers of information. The benefit is obvious, although the security of the stored information may decrease, both physically and in terms of privacy. Therefore, appropriate differentiation is needed. Especially since the volume of disk space on desktops and laptops are large enough. So the information stored in the cloud is not the most valuable one, but “routine”. The valuable information is better to store on fixed drives, creating backups for it. In addition, cloud space is “tied” to a specific network system, which is independent of its user. Therefore, the reliability and privacy of storing information in the cloud is only relative.

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УДК 378.168/.169:004

Л. В. Воронина, В. В. Артемьева

L. V. Voronina, V. V. Artemeva

ФГАОУ ВО «Уральский государственный педагогический университет», Екатеринбург

Ural State Pedagogical University, Yekaterinburg

L. V. Voronina@mail.ru, artvv76@mail.ru

ИСПОЛЬЗОВАНИЕ ИНТЕРАКТИВНОЙ ДОСКИ В ОБРАЗОВАТЕЛЬНОМ ПРОЦЕССЕ

USING THE INTERACTIVE WHITEBOARD IN THE EDUCATIONAL PROCESS

Аннотация. Рассматриваются возможности использования интерактивной доски в образовательном процессе вуза.

Abstract. The article discusses the possibility of using an interactive whiteboard in the educational process of the University.

Ключевые слова: интерактивная доска, преимущества интерактивной доски, формы работы с интерактивной доской.

Keywords: interactive whiteboard, advantages of interactive whiteboard, forms of work with interactive whiteboard.

В современном обществе, когда информация становится неотъемлемой чертой мировой экономики, образование продолжает оставаться основой профессионального и личного успеха любого человека. Предъявляемые к образованию требования изменились: наряду с базовыми знаниями и постоянным овладением новыми компетенциями работник должен уметь продуктивно использовать информационные ресурсы. Сегодня от него требуется умение творчески мыслить, принимать решения и непрерывно повышать свою квалификацию.

Для активизации образовательного процесса преподаватели всегда старались использовать разнообразные технические средства обучения, иллюстрации, технологические карты; еще недавно для этих целей применяли аудио- и видеоаппаратуру: магнитофон, телевизор и т. п. Однако время не стоит на месте, и в современных условиях мультимедийные функции успешно совмещает в себе персональный компьютер, до-