THE ROLE OF E-BOOKS IN EDUCATIONAL PROCESS

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Abstract. This article investigates e-book as an information recourse for education, analyses forms of electronic books, differentiation and its role in education.
Key words: electronic textbook, innovative system, pedagogical technologies, motivation, efficiency, self-education, methodical complex

In time of globalization, computer technology has become an integral part of our life, and are widely used in various fields of science and has a vital role in the education sphere: various educational and training materials, tasks, and examples of laboratory work are available in the global web of the Internet, they were developed and are successfully used as individual testing, specialized and universal training system. This can significantly improve the quality and efficiency of the educational process. One form of increasing the efficiency of learning is electronic textbooks.

This article investigates the notion of electronic textbook, its electronic tool for educational purposes, providing representation of different kinds of educational material to training subjects with the help of information and communication technologies, as well as creating conditions for self-learning and self-education in the information space.

There are quite enough definitions of the electronic textbook. Here are some of them. According to P.I. Serdyukov, electronic textbook- is a book "designed to achieve a set of goals, which is used, as a rule, during the process of learning the discipline course under a teacher's guidance [1]. A.A. Andreev defines electronic book as "a computer-based training system, which includes didactic, methodological and information materials on a subject matter, and a software allowing the complex-usage of them for self-education and control of the results of academic achievements." According to S.A. Sysoeva, electronic textbook is a "training program-methodical

complex, which allows self-learning of academic course or its parts, and which, in its educational purpose, combines the functions of the textbook, reference book, task book and a laboratory practical work" [2].

Electronic textbook is a set of information, methodical and software tools, designed for the study of a single subject usually includes questions and tasks for self-checking and testing of knowledge and provides feedback. With e-books we could solve such basic pedagogical tasks as:

− initial acquaintance with the subject, familiarization with its basic concepts and structures;

− basic training at different levels of depth and detail;

− monitoring and assessment of knowledge and skills;

− Development of skills for certain activities;

− knowledge and skills restoration .

E-books may be used at all levels: in schools and colleges, institutes and universities, for qualification improvement. Therefore, electronic textbooks are being developed in many countries (Gorlev, 1999; Gurov, 2000; Nikitov, 2003; Shautsikova 2004; Dukulis, 2004; Mathe 2004). Currently, electronic books exist in three forms, and differentiate as stand-alone, network and complex books [3].

Stand-alone e-book, which is available on a personal computer, PC, MAC, laptop, tablet, or smart phones, provides work in one mode-mode of student's self-sufficient operation.

Network electronic book is available on the Internet-server of the institution or in information databases of the Internet.

Complex e-book is loaded into a computer, PC, Mac, laptop, tablet, smartphone, or any other type of reader, and read on the screen, integrates into its functional structure means of the organization of asynchronous and synchronous communications (such as e-mail) and Internet resources .

Electronic books in general have a number of advantages in comparison to conventional textbooks on paper media. Specialists in the sphere of educational electronic means development distinguish the following benefits among them:

− compact-sized storage of educational material on a magnetic recording medium or in the information database;

− creation, modeling and solution of educational tasks in interactive way;

− provision of educational material in both linear and nonlinear formats;

− opportunity to choose the level of complexity in education;

− convenient navigation system and an opportunity to study individually in an optimal pace;

− the use of multimedia (graphic, audiovisual and animation projects) for the design of educational material;

− monitoring implementation of educational activity of students due to the logging of task execution results;

− the ability of using e-books everywhere, on the bus, train, plane, etc. via mobile devices and tablets.

The use of electronic textbooks in the educational process, as experience shows, increases student activity, generates their motivation of self-learning, provides a comfortable environment for creative self-expression of future specialists, related removes the psychological problems related to communication subjects of study.

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Application

For participation in an international conference, English is a key to Dialogue

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