

TEACHING METHODOLOGICAL SYSTEM BASED ON BLOG TECHNOLOGY IN AN ELECTRONIC EDUCATIONAL ENVIRONMENT

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Annotation:

The use of Smart technologies is increasingly complementing traditional teaching methods, increasing the motivation of students to study, forcing them to take a fresh look at the subjects being studied, thereby expanding the intellectual and creative potential of students. This article describes a methodical learning system based on blog technology in an e-learning environment using Smart technologies.

Key words: Smart-technology, blog technology, future computer science teacher, educational project blog, educational blog, e-learning environment

Аннотация:

Smart-технологияларни қўллаш таълимнинг анъанавий методларини тобора тўлдириб, талабаларнинг ўқишга мотивациясини кучайтирмоқда, ўрганилаётган фанларга янгича назар солишга мажбур этиб, шу тариқа талабаларнинг интеллектуал ва ижодий салоҳиятини кенгайтирмоқда. Ушбу мақолада Smart-технологияларни қўллаш орқали электрон таълим муҳитида блог-технологияси асосида ўқитиш методик тизими ёритилган.

Калит сўзлар: Smart-технология, блог-технология, бўлажак информатика ўқитувчиси, ўқув лойиҳаси блоги, таълимий блог, электрон таълим муҳити

Аннотация:

Использование Smart-технологий все больше дополняет традиционные методы обучения, повышая мотивацию учащихся к учебе, заставляя по-новому взглянуть на изучаемые предметы, тем самым расширяя интеллектуальный и творческий потенциал учащихся. В данной статье описана методическая система обучения на основе блог-технологии в среде электронного обучения с использованием Smart-технологий.

Ключевые слова: Smart-технология, блог-технология, будущий учитель информатики, блог образовательного проекта, образовательный блог, электронная обучающая среда

The use of the latest smart technologies such as webinars, blogs, twitter, video and audio podcasts in the teaching process, asynchronously and online, is increasingly supplementing the traditional methods of education, increasing the motivation of students to study, forcing them to look at the studied subjects in a new way, thus expanding the intellectual and creative potential of students.

The introduction of blog technology helps pedagogues not only to be well aware of their professional field, but also to develop students' potential: creativity, ability to work in cooperation, communication skills, critical thinking in collaborative problem solving, and the use of innovative methods of education. According to N. N. Vasilyuk, O. E. Luneva, "the great advantage of the blog is that the text comments in it are interconnected and filled with hyperlinks to references. This allows you to get a lot of information from other articles. There are several reasons for introducing blogs into the learning process, one of the main ones being the ability to provide a real audience for students. Students get acquainted with electronic resources that contain a lot of information on the studied topic, find the optimal solution to the problem proposed by the teacher with the help of information posted on the Internet, exchange information about their interests and comment on other students' messages, and as a result, the feeling of mutual solidarity increases. [1,2].

As noted by I.Frolov, "by creating a network environment based on blogs and introducing it into the practice of educational institutions, it is possible to guarantee the improvement of the quality of education of graduates and the self-education of teachers." According to E.V. Neustroeva, "blogs are convenient for project work and students develop research skills."

The use of blog technology helps students to form their information culture by having an idea of the theoretical basis and practical skills of effective work on the Internet, understanding the basic rules and features of safety in the online environment.

There are several types of blog technology, one of which can be applied to the educational process is the educational blog.

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Pedagog (teacher) blog is a collection of educational materials and topics. This blog is managed by the teacher and can contain various educational programs, lectures, assignments, tests, handouts, methodological recommendations to students and colleagues on the subjects of the subject being taught. able to create educational content. The technology of creating a blog allows you to place on your web pages a collection of authored educational materials (audio and video materials, links to relevant and interesting sites, texts, tasks, practical work, independent educational tasks, etc.). A teacher's blog is very effective in providing students with homework clarification, extracurricular materials and resources, independent study assignments, and reference materials.

A group blog or group leader's blog can act as a "bulletin board" for students and their parents. These types of blogs are used in extracurricular activities and are ideal for group discussions. Students can freely express their opinions on various topics related to the educational process. Such a blog can include photo albums of group events and activities, discussions on various topics, plans, and useful links. A group blog allows the teacher to monitor the students' level of mastery of the topics.

Study project blog - can be useful for students in project or research work. First, all the instructions and steps of the project work, links to useful resources and applications that may be required in the project, and secondly, there can be a place to print the report of the student's work. In addition, it is always possible to organize a discussion (via comments) on blog pages.

A student blog or student e-book is an electronic space for a student, where he can post his materials (presentations, pictures, creative homework). A student can create such a blog and show it to teachers. Students will have the following opportunities:

- publishing one's work in electronic form;

- presentation of the report (or the result of the work) in a wide format in which it can be executed;
- express oneself creatively (by publishing one's favorite hobby or creative materials);
- not using additional electronic means;
- access to materials at any time outside the educational institution.

By using this blog, students can work with various information; generate creative ideas; increased interest in science; deeper mastery of science; applying theoretical knowledge in practice; proper formation of site structure and design; establishing cooperative relations with students; skills such as obtaining information from interesting sites are formed.

Such a blog can become an electronic portfolio of students, where there will be material not only about homework, but also about all the student's achievements, his interests, and electronic tools for communicating with friends. The blog allows students to expand their educational space.

Remote Student Support Blog. This is a blog for students who are temporarily out of school or homeschooled. A distinctive feature of such blogs is that they are maintained by several teachers and contain educational material on several topics. Interactive tests, surveys created with the help of Google services make it possible to record the results of students' work, to carry out tests and control work remotely.

Below we will introduce blogging platforms such as WordPress, Joomla, Drupal, Pyro and Blogger (Blogspot).

According to statistics, the majority of CMS sites are WordPress. WordPress is a tool for creating a personal blog and editing website information. This program works with MySQL and PHP. The WordPress system is updated frequently, and each update creates certain additional features, as well as bug fixes. More than 68 million websites use WordPress, making it the most popular blogging and news platform in the world.

Joomla! Less commonly used than WordPress. These platforms have a lot in common. For example, they are both open source and provide tremendous extensibility. This platform offers a wider set of possibilities for performance than WordPress. Joomla! After updating or installing extensions, some problems may occur in rare cases. Many people choose to work with WordPress or Drupal because the platform offers more extensions. However, Joomla! occupies a central position between these two platforms.

Along with WordPress and Joomla, Drupal is another big platform that is getting a lot of attention. This platform is often used for corporate websites and other large projects due to its high performance. When it comes to blogging, Drupal provides all the features you need to build a website. It includes built-in features for content creation, editing functionality, and more.

Pyro is a Laravel-based CMS, which is distinguished by the fact that it is a great platform for developers. Pyro is distinguished by its standards protection, the ability to change the appearance of each piece of content. In addition, this platform makes it easy to edit all content. Pyro is a great option for creating simple blogs and complex websites. Pyro extensions are very expensive, so for blogs with a lot of features, costs can add up quickly.

Blogger (Blogspot). The platform allows you to create a website. It is easy to use, so any user can make a blog in minutes. It also has the added benefit of reliability and protection from Google, which has owned the service since 2003. The resource is synchronized with other Google services such as Drive

or Photos. This makes attaching photos to posts much easier. Using programming languages will help make the blog more diverse.

Advantages:

- It is easy to use due to the focus on the functionality of the blog;
- Can be integrated with other Google services;
- Registration through a Google account;
- Free use of own domain;
- Having a large user community.

Blogger is a very convenient and versatile tool that allows you to make a blog extremely attractive for all categories of users (children, students, students, adults). In it, you can easily combine materials related to a topic with other types of materials (educational, interesting, entertaining game). There are now more than 30 million blogs on the Internet, and their number is increasing every second. Knowing that the purpose of creating any blog is to convey information from the author to his "readers", we will list the main features that influence the rapid popularity of online diaries.

First, the ease of creating a blog and posting materials.

Secondly, the ease of organizing and providing interactive interactions between authors and students, the possibility of creating online communities.

Thirdly, the Internet is expanding and the speed of information distribution.

The technological process of working with Smart-blog, which serves to improve the methodological system of teaching programming languages at ETM, consists of the following stages:

- 1) The stage of creating a smart-blog design;
- 2) Smart-blog content posting stage;
- 3) The stage of using Smart-blog in the educational process.

The goal of teaching on the basis of blog technology in the modern methodical system that we offer is a competent approach to teaching students the scientific and theoretical foundations of programming, the knowledge that an informatics teacher should acquire in the professional field.

In order to achieve this goal, tasks such as communication, self-development or reflection, development of research skills and creative abilities, self-presentation, formation of teamwork skills, teaching students to perform independent tasks are defined in teaching on the basis of blog technology.

According to Polsin, Snyder, and Gunis, the introduction of new knowledge, methods, and forms in teaching is important in the preparation of future computer science teachers[3,4].

Teaching on the basis of blog technology in the e-learning environment helps to increase the motivation of students to learn. Because the development and use of an integrated Smart-blog based on blog technology will help students become competitive staff who can use programming in the process of preparing for pedagogical activities.

The use of blog technology that stimulates cognitive-creative activity in teaching serves to form students' inquisitiveness, creative approach to the problem, independent thinking skills and qualifications.

In conclusion, we can note that the use of blog technology in teaching:

- during the educational process, it creates the basis for maximum satisfaction of the students' need for information;

- creates favorable conditions for students to work in groups and in teams;
- can form skills of quick work with information, develop creative abilities.

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