



POSSIBILITY OF ORGANIZING INDEPENDENT WORK OF STUDENTS OF HIGHER EDUCATION INSTITUTION WITH THE HELP OF MOBILE TECHNOLOGIES

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Article history:	Abstract:
Received: June, 11 th 2022	It is known that today the number of users of mobile technology and mobile devices is increasing. Most of the students of higher educational institutions of our country are technically and psychologically ready to use mobile technologies in the educational process. Most students of higher education institutions have mobile phones with Android or iOS installed. The use of mobile devices in the organization of independent education of students can help to solve some of the current problems of education. As the capabilities of mobile devices continue to grow, their widespread use as an educational tool requires solving unique challenges.
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INTRODUCTION

At a time when computer science and information technologies have a significant positive impact on the development of society in the world, the wide use of modern technologies, didactic teaching tools and mobile learning opportunities in their teaching, the formation of professional competence of students of higher education institutions, as well as the development of independent learning skills large-scale scientific-research works are being carried out. Determining and developing the levels of competence of learners in the use of mobile educational technologies serves to improve the theoretical, methodological and methodological foundations of systematization of education.

Many researchers of the world have put forward theoretical and practical approaches to the use of electronic tools in higher education, the possibilities of using mobile learning technologies, and the improvement of the teaching methodology. Using them, the development of the methodology of using mobile learning technologies in organizing the independent education of students is a requirement of today.

In recent years, thanks to the rapid development and improvement of information and communication technologies, everyone's ability to use them has been significantly expanded, and information technologies have become an important component of the daily life of almost most members of modern society. At the same time, it is evident that people's motivation to use laptops, netbooks, tablets, smartphones and many other mobile devices rather than personal computers during their activities, especially in the process of independent education of learners, is increasing.

MATERIAL AND METHODS

The use of mobile devices in the process of organizing students' independent work in higher education institutions creates wide opportunities for students to work with information in various forms. The smartphone has additional devices such as geolocation, various sensors, accelerometer, compass, photo and video camera, microphone and audio speaker, and also has integral tools for working with data in various formats, therefore, students can do independent work from a mobile device in the auditorium, as well as outside the auditorium. has wide possibilities for use as a tool in performance.

For poorly equipped classrooms or for students who do not have personal computers, the mobile device offers certain possibilities, since it is actually a small computer. Thus, practical, laboratory and independent work in the "Web design" course can be done using mobile devices in addition to a personal computer.

A number of technological and organizational conditions are required to effectively use the above-mentioned opportunities in the educational process. Since mobile devices equipped with mobile applications that connect students and teachers do not have obvious advantages when used in the educational process, the following tasks are required from a unified information space for the mentioned didactic tasks:

- information and documents necessary for the organization of the educational process, as well as exchange of information between students and teachers;
- being able to implement joint projects in the process of performing collective tasks;

- they can edit common documents together during the performance of collective tasks;
- able to collect information online from various participants participating in the educational process.

RESULTS

Today, the issue of organizing a unified information space for stationary personal computers and laptops, as well as tablets and smartphones, that is, for all types of devices, is urgent, and the most convenient way to organize such a space is the use of cloud technologies. The following are the didactic possibilities of cloud technologies: the ability to organize the joint work of a team of teachers and students; the ability for teachers and students to share and publish documents for different purposes; rapid integration of information into the educational process due to the fact that the user's performance is not geographically bound to the place; organization of interactive lessons; availability of collective training; that students are not tied to "audience size" and "session time"; the absence of restrictions on training, the ability to conduct independent work, including team projects, at any time and place; the ability of students to work cooperatively with their teammates regardless of their location; create laboratories related to a specific topic; the teacher's use of various forms of supervision; application of educational management systems by higher education institutions.

Mobile-enabled cloud-based learning provides the following "three key functions" in creating an information space:

- resourceful - placement, storage and transmission of information representing educational content;
- communicative - on the one hand, at any time, the teacher and students can use the information in the space; on the other hand, there will be an opportunity to communicate between them;
- organizational – organization and management of the educational process by the teacher.

Using the cloud educational information space from mobile devices gives students the following opportunities:

- during the lesson in the auditorium, as well as while completing their independent tasks, students can conduct team activities;
- the result of the tasks performed by students as a team - storage of information resources in a single information space is ensured;
- it is ensured that students can access the materials of the educational course provided by the teacher at any time and in any convenient place;
- the level of cooperation among students increases by performing joint project activities;
- it becomes possible to organize communication between parents and higher education institution.

DISCUSSION

Along with modern education (virtual learning environments, online courses, cloud technologies, etc.) technologies that are widely used in the educational process today, mobile technologies are one of the modern trends in the development of information and communication technologies, and students can use the following advantages they offer when organizing independent education:

- classrooms equipped with special computers are not required for the organization of educational activities (lecture, practical and laboratory, as well as independent education) on the studied subject using the educational resources placed on the network and stored in it;
- it will be possible to use them at any place and at any time according to the user's wishes;
- there is no need to organize independent education through a stationary computer, it can be done anywhere and at any time with Wi-Fi or Internet access;
- it is possible to find the necessary information instantly;
- to be able to organize the performance of given educational tasks on the basis of mutual cooperation between students and teachers;
- economic efficiency (increased jobs, lower price of mobile devices compared to computers and laptops).

The development of the use of mobile technologies in independent educational activities is a promising direction, which is the use of educational systems that implement individualized education based on the principle of flexibility.

CONCLUSION

The organization of independent educational activities using mobile technologies increases students' interest in the lesson and their activity in the lesson, and the ability to complete the assignments via the Internet allows students to effectively organize their independent work outside the classroom.

ACKNOWLEDGEMENT

The organization of independent education of students with the help of mobile technologies gives students the opportunity to access educational materials at any time, and the availability of information on the Internet creates the possibility of using them in an unrestricted state, which creates ample opportunities for students to acquire solid knowledge, especially in independent work outside the classroom.

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