

## ORGANIZATION OF DISTANCE LEARNING USING MOBILE DEVICES IN THE LEARNING PROCESS

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### ABSTRACT

This article focuses on the development of pedagogical theory and practice, the purpose, content, methods of distance learning, distance and interactive communication of listeners and teachers using teaching aids and Internet technologies, some elements of the educational process are electronic, conducted in an educational environment.

**Keywords:** distance learning, methods of organizing distance learning, distance-learning system, a distance-learning system in an educational institution (DE). Distance learning models, LMS, MOODLE, OOOK.

### INTRODUCTION

The current rapid development of information and communication technologies has made it possible for learners (pupils, students, adults, etc.) to learn from leading experts in the most developed countries.

In today's information age, it is important to form a system of distance education in higher education institutions. Many countries use modern ICT-based distance learning (DE) to train quality staff in the education system. The experience of the education system shows that the opportunities to radically improve the quality of staff through the use of the Internet and ICT in the learning process as a means of acquiring, storing, transmitting new knowledge, and practical decision-making are expanding.

## LITERATURE REVIEW

The purpose of teaching the subject of resistance of materials is to teach students how to determine the internal forces generated by external forces on the elements of structures and machine structures during operation, as well as to develop skills in performing basic engineering calculations.

## RESEARCH METHODOLOGY

Mobile devices: Smartphones, iPhones, and tablets. Nowadays, such types of mobile phones and other mobile devices are produced that are not inferior to personal computers in terms of their functions. Using such mobile devices, you can work with documents, listen to music, watch video clips, play games, and even enjoy radio and television. Smartphone (*smartphone*) means "smartphone" in English. A mobile phone that is functionally close to a pocket PC. It combines all the functions of a pocket computer. The iPhone is a line of four-band multimedia smartphones. In addition to the main functions of the phone, the iPhone also includes the main functions of the communicator and Internet tablets.

Internet tablets are a special mobile device, a classic example of a personal computer. Tablets (such as the iPad) are completely different from computers in appearance. Tablets consist only of a screen, while other peripherals (mouse, keyboard) are arranged in a virtual view. The tablets specialize in accessing Internet services and working with documents through a fully mobile environment.

When MathCAD started, a window will appear on the computer screen as shown in Figure 1.

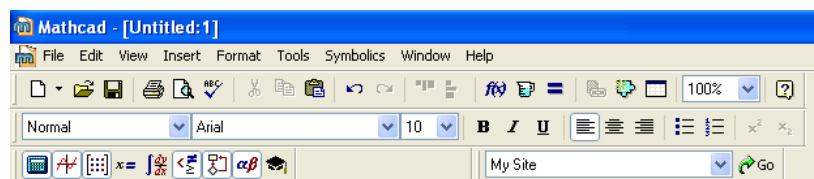


Figure 1. View of the main menu of MathCAD.

This form of education is called distance learning.

The technical characteristics of modern mobile devices, that is, with the help of special applications and websites created for the devices, allow students to receive distance learning.

Distance education has the following opportunities:

- secondary higher or additional education;
- education of people of volunteer age;
- education, regardless of physical and family status;

- in-service training;
- Abundance of opportunities for independent study;
- education regardless of geographical location;
- speed capabilities, etc.

Distance education is education based on information and telecommunication technologies, which includes the best traditional and innovative methods, teaching tools, and forms.

It is a system that requires the learner to practice more independently, providing the learner with learning conditions and communication with the teacher based on certain standards and educational rules.

**Analysis and results in Information exchange using mobile devices: Bluetooth, SMS, and MMS.** Transmission of information using mobile devices is carried out using Bluetooth, SMS, and MMS technologies.

Bluetooth is a wireless technology with a small coverage area. Facilitates communication between network devices and their Internet connection. It also facilitates data exchange between different electronic devices and computers. Bluetooth is designed to transmit small data streams, so it cannot replace local and global network technologies.

**E-learning has the following features:**

- Independent work with electronic materials using personal computers, tablets, smartphones, MP4-players, DVD players, televisions;
- Opportunity for remote cooperation, consultation, advice, evaluation from a remote expert (teacher);
- the creation of a community of users (social networks) whose opinions coincide;
- Timely delivery of standards and applications of distance learning tools, e-learning materials, and technologies;
- Improving the information culture of managers and employees of the organization, mastering modern information technologies;
- mastering and popularization of innovative pedagogical technologies;
- Opportunity to develop educational web resources;
- to receive modern knowledge at any time and from any place in the world;
- e-learning includes e-books, educational technologies and services. In fact , it began with the use of computers in e-learning.

The formation of e-learning can be divided into three stages:

- Courses on CD-ROM disks;
- Distance learning of specialist teachers;
- E-learning using special interactive programs, e-books.

### **CONCLUSIONS AND RECOMMENDATIONS**

The use of new digital technologies in education requires the improvement of its regulatory framework, which, in turn, leads to the unification of legislation in the field of innovative distance education and its direct implementation in practice. It serves to increase the efficiency of application.

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