
QUALITY DISTANCE EDUCATION IN THE CONDITIONS OF WAR

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Annotation

The coronavirus pandemic has forced educators to adapt and set up remote work. However, the war in Ukraine brought new challenges - the destruction of schools, the forced relocation of students and teachers who study and work in new schools throughout Ukraine and beyond, "dropping out" of the educational process of individual children and entire classes due to hostilities and other reasons, related to war. The experience of organizing distance education, acquired last year and the year before last during the covid-quarantine, helped the Ukrainian education system to quickly adapt to the new realities of the war.

Since the beginning of the war, distance learning has become the main option for accessing knowledge, and schools are trying to adapt their work during the pandemic to new conditions. Now, when Ukrainians are forced to study online because of the war, a logical question arises: what are the main advantages of distance learning in Ukraine and how can the lessons of the pandemic help in wartime? The article examines the material on the implementation of distance education in Ukraine in wartime conditions, which will allow to develop recommendations for the possible application of distance education methods in wartime and peacetime in Ukraine and other countries.

Keywords: distance learning, communication technologies, online communication, web resources.

Distance education allows you to meet the individual needs of each person in learning and to solve such problems of traditional education as the lack of an individual approach to students, insufficient use of active forms of teaching, weak motivation for independent cognitive activity of children, strict dependence on the territory and time of classes, subjectivity assessment of learning outcomes. Distance education can support students and teachers in difficult times for the state.

Distance learning, also known by various names such as distance education, e-learning, mobile learning, or online learning, is a form of education where there is physical separation of teachers from students during the instruction and learning process. It is also an instructional practice that effectively utilizes a wide range of tools and technology to enrich the student learning experience and to facilitate student-faculty and student-student communication. The minimum technological requirements for successful distance learning include the acquisition of hardware such as a computer, mobile device (cellular phones), or webcam, some form of listening device, video conferencing applications such as WebEx or Zoom, Microsoft Windows or Apple operating systems, and a stable internet connection with a speed of about 56K or greater.

Distance learning is a technology of the future, which requires constant improvement and compliance with the development of online technologies and platforms.

Tips for organizing distance learning in wartime

1. Changes to the calendar and thematic planning

In the conditions of war and constant air alarms, it is difficult to adhere to a stable schedule of classes and calendar-thematic planning. Therefore, it should be a flexible tool in the hands of the teacher. It is important for the school director to convey to the teachers that the current calendar-thematic plans are not up to date. The teacher can use his usual plan as a basis, and at the same time adapt and change the plan, increasing the time, for example, for repeating the material of the previous year and specifying the material after diagnosis.

In the calendar and thematic plan, the teacher should: choose topics that can be transferred to independent study by students (it is advisable to include topics from which quality resources are available); to consolidate topics that are easier to learn, and vice versa - to identify those that require more detailed study; identify topics that are studied for the first time and without which it is impossible to learn further material.

2. A single educational platform

Long-term distance learning should take place using a special online platform. In order for children and teachers to be comfortable and understandable, it is important that such a platform is uniform for the entire school. It can be, for example, Google Classroom, Moodle, Office 365, or a platform developed to the order of an educational institution. In turn, it is important for teachers to provide feedback to students and establish an evaluation system through clear criteria, deadlines for tasks, and the introduction of deadlines.

3. Mixed learning

In the conditions of war, it can be difficult to organize mixed training, however, there are other models of its organization, which mainly concern training methods. All models of the distribution of the learning time of the lesson into synchronous and asynchronous modes are models of mixed learning. One of the effective methods is the "Flipped Class", which stimulates students to be active participants in the educational process. Activity-based learning methods, step-by-step instructions for independent work can be used to teach students in asynchronous mode.

4. Active learning methods

Project, search, and research tasks will help the teacher to ensure a variety of cognitive activities and interest students. As a rule, the main part of such tasks is performed by students in asynchronous mode. One of the types of organization of such training can be the systematic use of the "Flipped Class" technology, which involves providing students with tasks to familiarize them with new material before the teacher explains it in class. This can be watching a video, analyzing practical problem situations, processing the educational text and transforming it into another form - a table, infographics, charts, tests, etc. In this case, the role of the teacher and the very format of the lesson changes.

5. Independent processing of the material

Students' independent mastery of the material during distance learning in war conditions has its own characteristics. The teacher should divide the material into logical thematic blocks. This will help children learn independently. At the same time, it is important for teachers to provide children with as clear instructions as possible on mastering each block of material and criteria for independent assessment of the result. It is important to remember that independent work must have a clear material embodiment - a product. Tasks can refer to both the entire volume of the material and its part. Oral traditional tasks (retelling the material or answering questions) are ineffective for independent learning.

6. Tracking the dynamics of educational achievements

Despite the war, it is important and necessary to monitor the educational achievements of students. For this, teachers should develop diagnostic tasks. Teachers can do this by choosing tasks according to topics and expected results. Tracking the dynamics of students' educational achievements will enable teachers to timely diagnose possible educational losses and respond to them in time. In order to diagnose educational losses, it is first of all necessary to identify missed topics, develop tasks for evaluating educational achievements, and analyze the results. After that, develop plans to overcome educational losses: collective, group or individual. Such plans may include the student's independent work, teacher's consultations, performance of tasks in groups.

7. Cooperation with parents

Cooperation between teachers and parents is an important component of the success and quality of distance learning of students. However, it is worth remembering that cooperation does not mean that parents are responsible for explaining the material or completing tasks. The role of the teacher is important here. Parents, for their part, can motivate children, support them and help organize independent work, create conditions for self-control and self-evaluation. In the conditions of distance education, the most attention should be paid to

cooperation with the parents of primary school students, since they will organize their children's education, at least in the first months.

Means of distance learning organization

Criteria for choosing means of organizing distance learning

To ensure remote learning of students, the teacher can create his own web resources or use other web resources of his choice. At the same time, it is necessary to provide students with recommendations on the use of resources. To foster academic integrity in children, it is important to always give correct references to sources. The most important criterion for the selection of means for the organization of distance learning should be compliance with the set methodical goals. At the same time, it is also desirable to take into account the versatility of these tools. When comparing several tools, it is worth considering the clarity of the interface for both teachers and students. At the same time, it is important to take into account the possible special needs of students and the principles of universal accessibility of software tools. In environments where learning takes place through the use of personal devices, it is necessary to consider the diversity of these devices and choose resources that are most suitable for different platforms. An important point is the need to register students on the web resource, because information security should be kept in mind and the number of platforms on which we offer students and teachers to register to a minimum. It is necessary to carefully familiarize yourself with the rules of using the platforms.

Basic forms of online communication

A video conference is a real-time online conference. Video conferencing is one of the modern methods of communication that allows classes to be held in "remote classes" when students and the teacher are at a distance. Therefore, discussion and decision-making, discussions, project protection take place in real time. The teacher and students can see each other, the teacher has the opportunity to accompany the lecture with visual material. The forum is the most common form of communication between teachers and students in distance learning. Each forum is dedicated to a certain problem or topic. The moderator of the forum implements the discussion, stimulating it with questions, messages, and new interesting information. Chat — communication between network users in real time, a means of operational communication of people via the Internet. A blog is a form of communication that resembles a forum, where the right to post belongs to one person or group of people. E-mail is a standard Internet service that provides the transmission of messages both in the form of plain texts and in other forms in open or encrypted form. Questionnaires - it is convenient to use various questionnaires for ongoing control during distance learning. The questionnaire is quite a flexible tool, as questions can be asked in many different ways. In distance learning, after mastering each topic, you can use questionnaires in which the student can self-assess the learning results. Social networks, instant messaging services, and mobile applications allow you to create closed groups, communities, chats, and discuss topics, tasks, problems, and information.

Common web resources for distance learning

The All-Ukrainian Online School (<https://lms.e-school.net.ua/>) is a platform for distance and mixed learning of students in grades 5-11 and methodical support for teachers. The goal of the All-Ukrainian online school is to provide every Ukrainian student and teacher with equal, free and free access to high-quality educational content. The platform contains video lessons, tests and materials for independent work in 18 main subjects: Ukrainian literature, Ukrainian language, biology, biology and ecology, geography, world history, history of Ukraine, mathematics, algebra, algebra and beginnings of analysis, geometry, art, fundamentals of jurisprudence, natural science, physics, chemistry, English language and foreign literature. Children can use the platform both to study during quarantine, war, and to familiarize themselves with a topic they missed at school due to illness or other reasons. For teachers, recommendations have been developed for conducting mixed and distance learning using the educational materials of the platform.

The Moodle platform (<https://moodle.org/>) is a free, open-source distance learning management system. Allows you to use a wide range of tools for educational interaction between the teacher, students and the administration of the educational institution. Moodle has in its toolkit: assignment submission forms; discussion forums; uploading files; evaluation journal; exchange of messages; calendar of events; news and announcements; online testing; Wiki resources.

The Google Classroom platform (<https://classroom.google.com>) is a service that connects Google Docs, Google Drive, and Gmail, and allows you to organize online learning using video, text, and graphic information. The teacher can conduct testing, control, systematize, evaluate activities, review the results of exercises, apply various forms of assessment, comment and organize effective communication with students in real time. The main element of Google Classroom is groups. The platform also allows you to collect students' answers using Google forms and then conduct automatic evaluation of test results.

Application of Office 365 cloud service applications. Teams, Office Web Apps, Outlook; Planner, Forms, OneDrive.

Zoom (zoom.us/download) is a service for conducting video conferences and online meetings. To do this, you need to create an account.. Video conferences can also be held using Microsoft Teams, Google Meet, Skype, etc.

Classtime (<https://www.classtime.com/uk/>) is a platform for creating interactive educational applications that allows you to conduct analytics of the educational process and implement individual approach strategies. There is a library of resources, as well as the ability to create questions.

LearningApps.org ([LearningApps.org](https://www.learningapps.org/)) is an online service that allows you to create interactive exercises. They can be used when working with an interactive whiteboard or as individual exercises for students. Allows you to create exercises of different types on different topics. This service is a Web 2.0 application to support educational processes. LearningApps builder. org is intended for the development, storage and use of interactive tasks in various subjects.

Useful tips for teachers

Equal access

At the beginning of distance learning, set uniform standards for all students and voice your expectations. Whenever possible, interact with students individually or in small groups to establish an emotional connection with them. Encourage children to tell you about their circumstances and ask questions.

Communication and communication

Simplify the communication process. Organize a common platform that all students will have access to and post all messages there. Collect feedback from students and their parents. Use group work methods to strengthen the connection between students. Group work is especially important in distance learning conditions - it creates the effect of being present in the classroom. Create virtual classrooms and use mentoring to connect with students informally in small groups.

Technologies and tools

Be patient with yourself, your students, parents and colleagues. Learn from each other. The main thing is to master the basics of working with distance learning tools. Teach parents how to use the apps you use in the classroom. This will allow you to interact with them during the learning process. Share experiences with colleagues. Give the students an assignment during the lesson. Children can come up with many ways to make the lesson more interesting.

Emotional well-being

The priority in distance education should be the physical and emotional health of each participant in the process. Without this training is impossible. Your task is to set the tone of learning, taking care of the well-being of each student and your own. During quarantine or war, children do not have the opportunity to gather together in the classroom or on the playground. The social aspect is extremely important for healthy development and cannot be ignored. The task of teachers is to support the social interaction of students. Take breaks. Reduce the amount of homework - so children will have more time to be physically active or just have fun. Be flexible when evaluating achievement. Because your students have different learning environments at home, the results will also be different. When communicating with students, emphasize the importance of good health, exercise, sleep, and

rest. Dilute the learning process with informal communication and humor. Encourage children to help each other in their studies. Suggest how to do it better. Celebrate birthdays and other important events. Take care of yourself. Find work-life balance in your schedule.

Lessons learned from the pandemic indicate the advantages of remote education in our country during the war. In particular:

- Ability to study at any time. Student can independently decide when and how much time to devote to studying the material. He builds an individual study schedule for himself.
- Ability to study anywhere. Children can learn from anywhere in the world. To start learning, you only need a computer with Internet access.
- Study without breaking away from the main activity. It is possible to study remotely at several courses or at several educational institutions at the same time.
- Ability to learn at your own pace. It is not necessary to study at the same pace as other students. A student can always return to studying more complex issues, watch video lectures several times, re-read correspondence with a teacher, and can skip topics already known to him.
- Availability of educational materials. There is access to all necessary literature. The problem absence of textbooks disappears.
- Mobility. Communication with teachers is carried out in various ways: both online and offline.
- Learning in a calm environment. Intermediate evaluation of courses takes place in the form of on-line tests. Therefore, students have less reason to worry. The possibility of subjective assessment is excluded.
- Individual approach. With traditional education, it is quite difficult for the teacher to pay the necessary amount of attention to all students, to adapt to the pace of each student's work. The use of remote technologies is suitable for organizing an individual approach.
- Distance education is cheaper. If you compare the cost of education in correspondence and distance education, distance education will most likely be cheaper. The student does not have to pay for travel, accommodation.
- Convenience for the teacher. Remote teachers can focus on more students and work even when they are not at home.

The implementation of distance learning during quarantine restrictions indicated a number of shortcomings. Namely:

- A strong motivation of the student is necessary. Practically all educational material is mastered by the student independently. This requires sufficient willpower, responsibility and self-control. Not everyone is able to maintain the desired learning pace without external control.
- Lack of practical skills and abilities. It is quite difficult to organize high-quality distance learning in areas of training and specialties that include a large number of practical classes. Even the most modern computer simulators cannot replace "live" practice.
- Distance education is not suitable for the development of communication skills. With distance learning, personal contact of students with each other and with teachers is minimal, if not completely absent. Therefore, this form of training is not suitable for the development of communication skills, confidence, teamwork skills.

At the same time, it is important to emphasize that to ensure distance learning in educational institutions, it is necessary to observe a number of pedagogical conditions, in particular:

1. creation of an information-technological educational environment, in which the key place is occupied by information technologies with the possibility of automating certain aspects of the process;
2. development of quality didactic support. It is about a didactic system in which distance learning takes place, each of its components is described;
3. ensuring a sufficient level of information competence of the teachers of the educational institution, which allows to effectively form and support the distance learning process.

Methodological recommendations for the implementation of pedagogical conditions for the introduction of distance learning into the educational process should be drawn up in accordance with the following structure:

- recommendations for the teacher on the organization of the information technology educational environment (choice of the style of interaction of the subjects of the educational process within the environment, the ratio of traditional and innovative methods, means and forms of education);
- recommendations for the teacher on the development of didactic support for distance learning (content of electronic educational resources, databases, etc.);
- recommendations for increasing the information competence of the teachers of the educational institution, in particular, the ability to fluently use Skype, Moodle, Zoom, Viber, Telegram, Messenger platforms for the purpose of distance learning.

Taking into account the given recommendations and experience, it is possible to provide students with access to quality education, even in difficult military times.

Having desire and motivation, you can find affordable ways not to stop in development and not to interrupt your education, because every minute devoted to education is a contribution to the victory of Ukraine not only today, but also decades after the war.

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