

Analysis of Course Transfer Systems Used in Distance Education

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Abstract: Each discipline has its own methods, systems and goals. The communication discipline has some features unlike the others. In this way, people express themselves, receive and transmit news and interact with their environment through their sense organs. Distance education can be defined as a system in which teachers and students in different physical spaces interact and perform teaching-learning activities with the help of various communication technologies in order to provide educational services to wider audiences and to ensure equal opportunities in education. Course transfer systems are used to achieve the main purpose in distance education. Lesson delivery systems enable people to communicate interactively. These systems, which enable the realization of data transfer over the Internet, emphasize synchronous and asynchronous motion picture transmission to very large masses, one-to-one, with small and large groups. In the meantime, however, features such as speaker focus, screen and file sharing, scratch and drawing board are offered to create interaction between users. In this study carried out with the scanning model, these transmission systems have been examined and evaluated in detail.

Keywords: Distance education, analysis, lesson, transfer.

Introduction

Distance education can be defined as a system where teachers and students in different physical spaces interact and perform teaching-learning activities with the help of various communication technologies in order to provide educational services to wider masses and to ensure equal opportunities in education (Yalın, 2001; Arrivals, 2015; Koçoğlu, 2020.). Since distance education is based on information and communication technologies, there are examples showing that it is applied in different ways depending on the technology that develops in time (Saba, 2001; Turco, 2001; Aydın, 2001; Koçoğlu, 2020). That is to say, distance education, which was based on printed materials from its first appearance until the 1970s, has been used in radio, audio cassette, fax, film, telephone, television, computer etc. It can be said that it is given through information and communication technologies (Koçoğlu, 2020).

The term "distance education" (Distance Education-DE), which was first mentioned in the 1892 catalog of the University of Wisconsin, was first expressed in an article written in 1906 by William Lighty, the director of the same university (Kaya, 2002). In the following process, this term (Fernunterricht) was introduced by German educator Otto Peters in the 1960s and 1970s in Germany and applied as a name (Teleenseignement) to distance education institutions in France (Verduin & Clark, 1994; Kaya, 2002; Koçoğlu, 2020).

It can be said that the transfer takes place in the process of distance education based on different time and place, through technology-based systems. It can be stated that experts in the field who want to increase the quality of distance education through these systems create different products related to the systems and contribute to system diversity. These systems can be used for health, socio-cultural, economic and political purposes, together with only education. In this study, the systems used in the course transfer process in the distance education process were evaluated.

Method

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- Selection and peer-review under responsibility of the Organizing Committee of the Conference

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Document analysis, one of the qualitative research models, was used in this study, in which the detailing of the course transfer systems used in distance education was taken as the basis. Qualitative research allows the researcher to directly access the data source. It provides detailed descriptions that will provide a deep understanding of the context and facts, and convincing generalizations based on the information obtained by synthesizing (Büyüköztürk, 2011; Güzel Candan & Ergen, 2014). When it comes to document review, only written materials should not be considered. When it comes to documents, sources such as photographs, videos and pictures also constitute visual documents. Document analysis enables the analysis of documents produced in a specific time period about a research problem or documents produced by more than one source and at different intervals on the subject (Yıldırım & Şimşek, 2008). The data obtained regarding the research subject in the study were evaluated by giving figures.

Findings

As the world class transport system used in distance education process implemented due to the outbreak in Turkey there Covid-19 is shown in figure 1. While some of these systems are used in education in many countries of the world, it can be said that many of them are used in different dimensions of the life process rather than education.

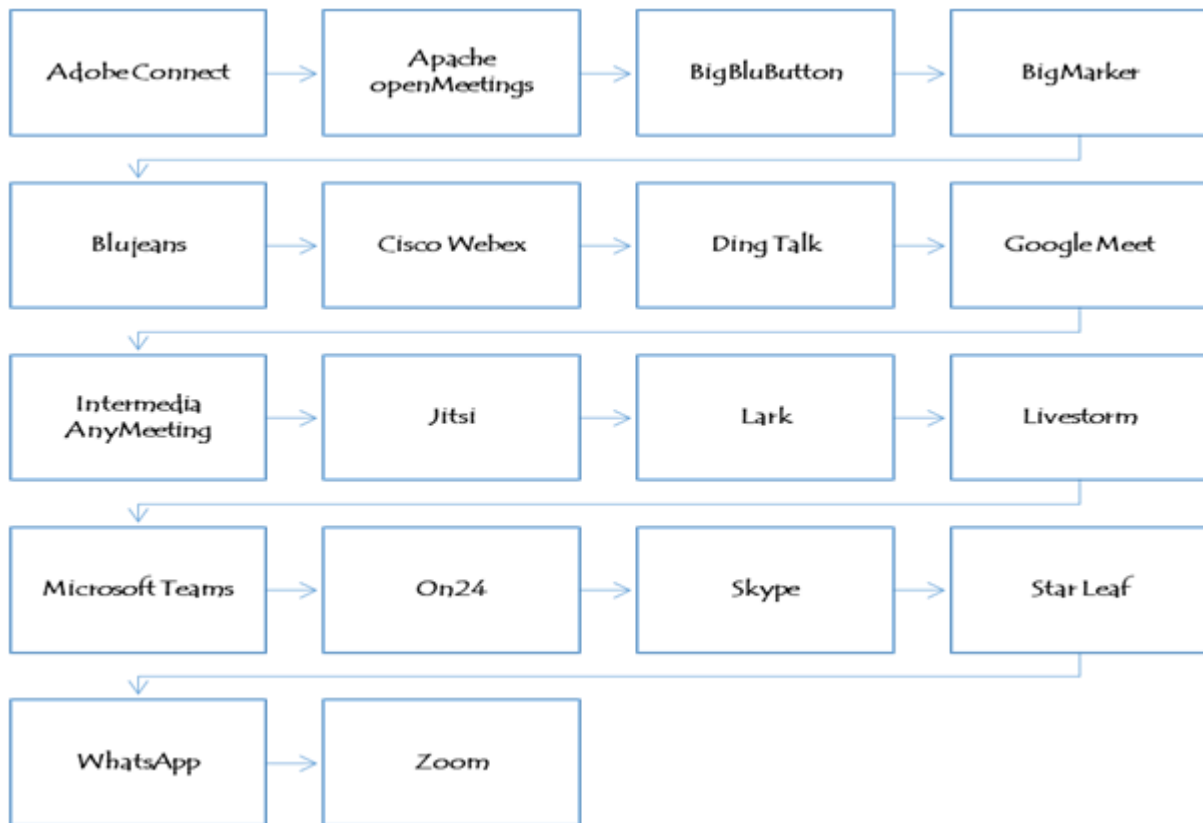


Figure 1. Course transfer systems used in distance education

Looking at figure 1, it can be said that although course transfer systems used in education vary, only a few of them are used in the distance education process. This situation can be shown as the most important proof that the distance education process based on internet technology has system diversity. However, some of these transmission system in distance education process in Turkey has come to the fore. It can be said that the prominence of these transfer systems, their use in educational institutions outside of the distance education process, and the high number of qualified personnel who are qualified to use these systems contribute. The prominent course transfer systems are given in Figure 2.

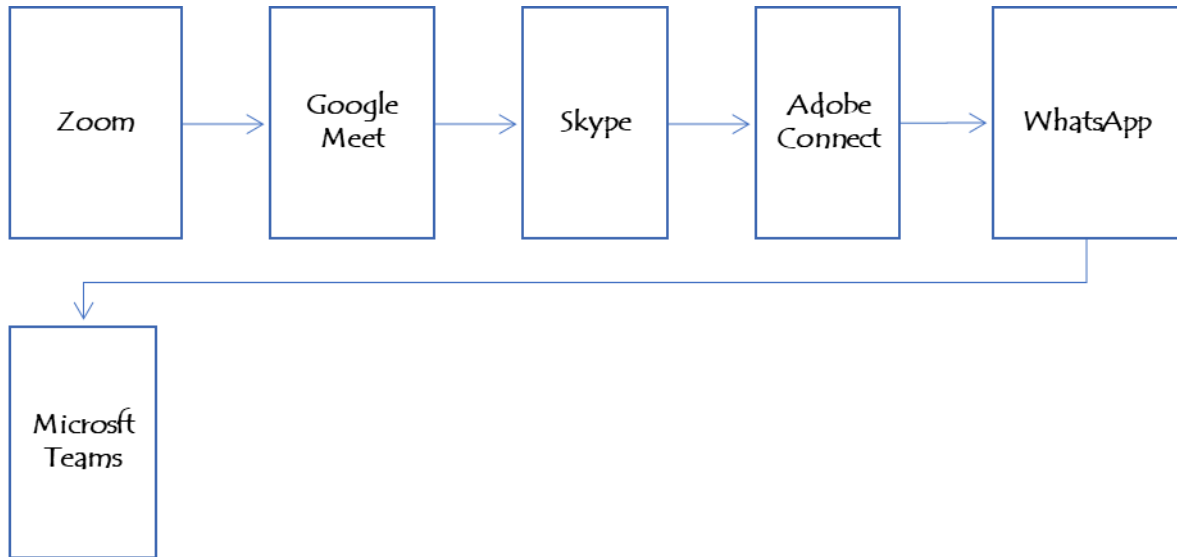


Figure 2. The transmission systems used in distance education process in Turkey

Zoom transmission system is a cloud-based communication program that stands out with its video conferencing feature. It works on portable devices, desktop computers, smartphones and room systems (Zoom About, 2020). The company is based in America and its founder is Chinese born Eric Yuan. Zoom is preferred by global companies and well-established universities, serving the world's largest technology companies and universities that drive technology. However, it ranks first in the world in customer satisfaction (Zoom About, 2020; İneç, 2020).

Google Meet, there are various communication platforms developed by Google. There are paid and free versions of Google Meet. Up to 100 users can participate in the meetings created in the free version for 60 minutes. A Google account is required to use this service. Google Meet protects the data of its users with the Google Clouds infrastructure (Google Meet, 2020; İneç, 2020). Google Meet is committed to maintaining both interaction and communication through its features. Thanks to its file sharing feature, it enables the presentation of slides, files and various documents to other users in meetings. In addition, it is possible for hundreds of people to participate in these meetings and to show them live to hundreds of thousands of people. Moreover, no special device is required to reach Google Meet. It is possible to reach Google Meet from any device. Within this framework, there are large global companies that prefer Google Meet (Google Meet, 2020).

Skype, is a Microsoft company's video communication platform that works in browsers. However, it differs from other applications due to some features. This aspect of Skype makes it look like mobile phones. Because users have a phone number on Skype. These numbers are temporary numbers provided by Skype, not the users' own mobile phones. However, Skype is not a phone. Some features of Skype are paid and some are free. For example, a meeting with 50 people can be held free of charge, while obtaining a temporary phone number is paid (İneç, 2020). These operations are performed through browsers or desktop applications down loaded to computers. Skype also has mobile and Xbox applications. Voice and high quality video calls on Skype can be made between two people as well as between groups. Thanks to its smart messaging feature, people reflect their gestures and gestures to their communications. Screen and file sharing facilitates information transfer between people. Skype, which stores the call history on its phone-like interface, enables international calls, sending text messages and transferring text to simultaneous videos. Skype encrypts these transactions end-to-end (Skype Features, 2020; İneç, 2020).

Adobe Connect, the Connect application developed by Adobe company, is a communication platform that allows meetings, conferences and virtual classrooms to be created. Expressed as the most secure software in its field, Connect has multi layer security. Connect is designed to be fully customized by users in terms of communication possibilities. In addition, multi dimensional communication facilities, various measurement and evaluation tools and more are included in Connect so that Connect attracts attention and makes it different from other platforms. In addition to these features, Connect ensures cooperation during communication and makes them permanent (İneç, 2020). Adobe Connect is a paid interaction platform and has a 90 day trial period. At Adobe Connect, which reaches more than 15 thousand customers and cooperates with 2.5 million people, 7

billion minutes of communication is established every year. Adobe Connect, which has various great awards, is preferred by very large institutions and organizations (İneç, 2020).

WhatsApp was founded by Brian Acton and Jan Koum. WhatsApp, which enables users to communicate by eliminating the operating system and network differences of smartphones over the Internet, went into operation in 2010 and was sold to Facebook for 19 billion dollars in 2014. By 2020, 2 billion people prefer WhatsApp. This includes WhatsApp's safe and easy calling service by working on any phone in more than 180 countries. WhatsApp provides voice and video calling, video, document and location sharing services. By encrypting these processes from end to end, it prevents the data of users from being captured by third parties (WhatsApp About, 2020). WhatsApp ensures that communication between individuals or groups (up to 256 people) is made via message, photo and video within the framework of its "easy, secure and reliable messaging" policy. It also performs simultaneous video transfer for free. It is possible to reach WhatsApp, which has a mobile interface, from browsers and desktop applications (WhatsApp Features, 2020).

Microsoft Teams, Teams is an advanced communication platform developed by Microsoft company. The free version offers features such as unlimited text based communication, video search, file sharing and storage. In addition, Teams provides simultaneous meetings and video conferences, cloud technology support for storing files collectively or individually, and the integration of Microsoft Office applications simultaneously (İneç, 2020). In addition to being a communication platform, Teams also creates a collaboration environment. In this context, it enables 500 thousand users to communicate and collaborate, and facilitates guest access along with screen and file sharing. Especially, thanks to office integration, it provides the opportunity to organize and share office files simultaneously. The security of more than 250 integrated applications and services is also provided by Microsoft (İneç, 2020).

Conclusion and Recommendations

Very striking results were obtained in this study, which was conducted to evaluate the course transfer systems used in the distance education process. These distance education process technology that is included based on different systems, this training is not the problem as a course delivery system realization, the problems in the system, but may be due to staff does not have the ability to use these systems, Zoom course as transmission systems in Turkey, WhatsApp, Skype, Microsoft Teams, It can be said that there are results showing that Google Meet and Adobe Connect come to the fore. Based on these results:

- Trainings should be given by relevant institutions and organizations regarding the course transfer systems used in the distance education process.
- Practice-oriented trial shots should be made regarding the use of course transfer systems.
- The interaction of the lecturers or teachers with internet technology should be facilitated by explaining the lesson delivery systems in a simple and plain way.
- It may be suggested that orientation training should be given in order to facilitate the integration of students and teachers regarding the transfer systems used in the distance education process.

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