



## **Analysis Of Distance Learning Using E-Learning Methods On Study Postgraduate Students Who Are Working And Have Families**

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**Abstract:** Talking about the basic concepts of educational technology such as distance education technology is a challenge in itself, namely one of them is learning media. So that the role of educational technology today is needed to support the smooth running of teaching and learning activities (Sukiman, 2015). In addition, in educational technology, the embodiment in the utilization of technology in distance education needs to prioritize the concept of the basic use of educational technology that is adapted to the demands of the times as well as technology commonly used in education such as TV, LED, radio, tape, computer, laptop, and so on (Nasution, 1987). In terms of educational technology (Haryanto, 2015) explains that educational technology has an important role in terms of improving the quality of education in Indonesia. The development of information technology makes it easy to communicate information exchange so that place, time and distance are no longer an obstacle. The rapid development of information technology cannot be separated from the development of computer engineering. This advancement in the field of computers and information technology also has a positive impact on the field of education. The most influential application of computer technology and information technology in the field of education is the use of computer networks and the internet. With the internet, information services to target students are not limited to space, time and distance. Through the internet, information services can be provided as learning resources, learning media that can be studied according to the learning speed of students. With the existence of information and communication technology, it is expected to be used to support the implementation of the teaching and learning process from a distance. Because technology has a role to make the teaching and learning process effective and can continue to run well. In this way, existing technology will have wider benefits that we will not only use as entertainment but we can also use it to access any learning by using existing platforms properly and not stuttering technology.

**Keywords:** e-learning, information and communication technology, distance lectures.

### **INTRODUCTION**

Since the outbreak of the Covid-19 virus in March 2020, the order of life of the Indonesian people can be said to have undergone various changes. Almost all parts of Indonesia have been affected. The impact of Covid-19 has affected various sectors, one of which is in the field of education. From the beginning, school learning can be done face-to-face, now it has turned into virtual learning. Before Covid-19 hit, students received

knowledge transfer directly from the teacher in the classroom, but now it has changed only through video conference communication technology such as Zoom Meetings and Google Meet which are accessed at their respective homes.

The government through the Minister of Education and Culture of the Republic of Indonesia implemented regulation Number 24 of 2012 concerning the Implementation of Distance Education . The government urges each school to implement a distance learning model by utilizing existing media or communication tools in the learning process. Implementing a distance learning model is considered to be the right solution to prevent massive direct contact of people that can cause Covid-19 transmission.

On the one hand, the Distance Learning model is a solution to education during the pandemic, but on the other hand, it can be a big challenge for our nation's education that we must face together. This means that the implementation of online learning certainly requires the readiness of various parties, both from the school, position holders, and the students themselves. Parents also have a considerable role in the sustainability of online learning because the loss of the vital role of a teacher (physically) makes parents or in this case a mother's role heavier.

Distance learning is a learning pattern that takes place with separation between educators and students. Distance learning is usually carried out online to overcome these limitations. There are 3 determining factors for the success of online learning, namely: a. Supporting technology, b. Quality of teaching human resources, c. Student characteristics. Sometimes in daily activities among students they encounter many obstacles in communicating, especially those who already have families. Sometimes in daily activities among students they encounter many obstacles in communicating, even lecturers who must be required to be professional in their work, under any circumstances must remain carry out his duties. To overcome this problem, there are many applications that can support and facilitate long distance communication, such as Skype, WhatsApp, Line, Zoom, etc. However, usually this application can only be used to communicate with one person, whereas for meetings and discussions with more than one person it will be difficult. However, now there is an application that can carry out meeting or discussion activities together, such as meeting face to face without having to meet physically. The name of the application is Zoom Cloud Meeting. Zoom Cloud Meeting is an application that can support communication needs anywhere and at any time with many people without having to physically meet in person.

Another challenge that must be faced is the limited facilities and infrastructure, especially technology and internet access. As revealed from the survey results of Gunawan et al. (2020) The obstacles that most often arise during the implementation of online learning are internet packages that are not owned by students, limited internet access by lecturers and students, and unfamiliarity with online learning. (Gunawan et al., 2020). The internet for online learning is like the heart for the human body, if the heart does not beat then humans will die. It is feared that this will affect the quality of the education process and students will not get maximum learning, even though according to Arifa (2020: 14) the distance learning process ideally can still accommodate students' learning needs to develop talents and interests according to their level of education.

In the context of distance learning, we can see the aspects that exist in the education process, whether the government in the education sector, teachers, lecturers, students, or students have carried out their functions properly? Have teachers, lecturers, students, and students carried out their roles properly? Or is it precisely the existence of distance learning that makes the function of each aspect in it less than optimal or it can be said that functionally structural interferes with the roles and functions that must be carried

out properly. How to make the function of the aspects of education work well by having an understanding that each aspect is part of a system.

Ichsan (2020: 98-114) in a functional structural perspective, society is seen as a system of several parts that are related to one another. According to Wirawan (2012: 42) adherents of the functional approach see society and social institutions as a system in which all parts are interdependent and work together to create balance, meaning that if one part does not function, other parts are also affected.

Like the challenges that exist in distance learning, internet quota constraints, unpreparedness of human resources, the absence of adequate facilities and infrastructure have a relationship with other aspects, one of which is related to economic aspects such as unemployment According to Supraja (2015: 15) education has been considered to have a certain form, this is mainly related to the positive contribution made to the functioning of industrial society, this means that if the distance learning system does not run well, the quality of graduates is low and unemployment is created.

## LITERATURE REVIEW AND DEVELOPMENT HYPOTHESIS

One of the main factors in a nation's progress is seen from the education system in a country. To obtain superior quality, a good education system is needed in Indonesia. The world of education has an important role in life, including preparing energy to help people in their daily lives. For example, in this digital era, all the information that people need can be conveyed quickly and easily. This is because of the ease of accessing the internet so that people can freely get a variety of information. what is needed quickly. Inter-networking or what is called the internet is a network consisting of a collection of computer devices connected by a particular protocol, namely TCP/IP (transmission control protocol/internet protocol) in order to exchange information between computers so that the internet provides all information for its users spread throughout the world (Setiyani , 2010). The presence of technology that supports online learning will provide added value and have a positive influence on the process and continuity of learning. However, online learning is often interpreted in a narrow perspective, which is basically the delivery of skills and knowledge supported by a platform and network. Every online learning activity refers more to the use of applications with processes rather than electronic functions for learning activities.

Challenges of Studying While Working The office and campus environments are certainly very different. By living two lives at once, you have the opportunity to meet various people and expand your network. If you are lucky, some of them can be one of the reasons you succeed later. Because whether you admit it or not, one of the success factors in the world of work is having quality relationships and networks.

Those who are both workers and students certainly have different life experiences. Their mindset cannot be equated with ordinary students. This is why not everyone can be both a student and a worker. So when you have the opportunity, make the most of it to improve yourself while enriching your experience.

In addition to experience, the obligations that workers have as well as students are certainly more than ordinary students. This makes them required to have good time management. So, don't be surprised if working students tend to be more disciplined and able to complete their responsibilities well when compared to ordinary students.

only are you good at managing time, you are also required to be able to manage money when studying while working. How not, the income earned every month must be set aside for education costs if you want to finish on time.

Of course, being a student as well as a worker, you don't need to imagine how to apply the theory obtained on campus in the world of work. Moreover, the field of study taken is in accordance with the line of work undertaken.

You can immediately apply the knowledge gained when and see the results. Vice versa, experience in the workplace can be used as material to understand the theory gained as a student.

## Formulation of the problem

Referring to the background of the problem described above, the problem formulation is obtained as follows:

1. What is the role of information technology in learning?
2. What is the role of the use of information technology for learning purposes?
3. How does information technology as a communication tool influence learning?

## Research purposes

1. To find out the role of information technology in learning
2. To find out the role of using information technology for learning purposes.
3. To find out how information technology as a communication tool influences learning.

## METHODS

This type of research is a literature study. Zed in Kartiningsih's research (2015) said that the literature study method is a series of activities related to library data collection methods, reading and recording, and managing research materials. Kartiningsih added that literature studies are carried out by every researcher with the main purpose of finding a basis / foundation for obtaining and building a theoretical basis, framework, and determining temporary conjectures or also known as research hypotheses. So that researchers can classify, allocate, organize and use various literature in their fields. While the population in this study are people who work in a business environment, including lecturers and those who use technology and information devices in the context of distance learning.

This literature review is an analysis in the form of criticism (constructive or damning) of the research being conducted on a specific topic or question on a part of the science.

Literature review then contains a theoretical description of a research result, findings, and also material in research activities. All of this can then be used as a theoretical basis when conducting research or compiling scientific papers. The research conducted can be a development or a new one.

activity starts from reading a number of literature, understanding, criticizing, and reviewing the literature. For academics, this activity is often carried out because it is close to this one behavior. Especially among lecturers and students.

## RESULTS

The Google Meet application is one of the latest applications where the previous versions were Google Chat and Google Hangouts. This application is considered more powerful than the previous version of Google Hangout, because Google Meet can be accessed on Android and iOS applications and can be accessed using a web application.

In general, Google Meet is used for people or groups who are in the business world. However, those who are not in the business world can also use it, especially for the online learning process. The use of Google Meet is very easy so that it is flexible and in accordance with the needs. This application is also available for free, so there is no need to pay for it.

Meanwhile, the Zoom application is a video conference service where users can chat online by utilizing cloud computer technology and 256-bit TLS encryption security.

The existence of Zoom, users can connect with each other, meetings, webinars, chats to conduct discussions in a channel. This application is also an alternative for learning and working remotely for both organizations and institutions.

Many activities are carried out online. So that many online applications have experienced a fantastic increase. Zoom is a communication application that uses video and can be used on various devices.

This application is used to conduct long-distance face-to-face meetings with a large number of participants. Zoom users can hold meetings, chats, webinars to large-scale discussions through this Zoom Meeting.

, the learning process activities of students and lecture activities that utilize Zoom Meeting as a teaching facility, through its features for presentations, exams to explain material. This online platform has HD or High Definition video and audio quality. Security is tightened using end-to-end encryption and secure password protection.

In addition, there are recording and transcribing features. Users can directly save meeting recordings.

It can be concluded that the use of the Google Meet and Zoom Meeting applications has only been used for distance lectures which require students to study online. The use of Google Meet and Zoom Meeting is considered practical and efficient for students, because by using Google Meet and Zoom Meeting, communication between students and lecturers is easier than communicating in writing or via chat. Even though the Google Meet and Zoom Meeting applications are considered less effective, on the other hand, these applications are considered more efficient and practical for students. For this reason, it is hoped that the Google Meet and Zoom Meeting applications can help students with online-based learning and it is hoped that students can utilize these applications as effectively as possible.

## CONCLUSION

It can be concluded that the use of the new Google Meet and Zoom Meeting applications for distance learning that requires students to learn online is very helpful for lecturers and students who are far from campus and have families. The existence of this phenomenon is a step to encourage Air Marshal Suryadarma University to utilize technology-based learning and is also a step towards the industrial revolution 5.0.

It can also be concluded that distance learning for students who are already working and have families is that lectures can be done anywhere, as long as they have a cell phone or laptop and an internet connection. Instead of taking permission to attend lectures by temporarily leaving work, students can adjust it to their own schedule. When lecture time

starts, students can make time in between office activities or even when there is work outside, we can still follow as long as there is a device and internet connection.

So there are so many conveniences when people who already work and have a family take distance learning courses we can harmonize between lecture obligations, work obligations and of course obligations in family affairs.

## REFERENCES

- Adri, Muhammad. 2007. Use of the Internet as a Learning Resource. Paper in the framework of the Seminar on Development of Information Technology Based Learning Models, FT Padang, 22-23 August 2007
- Diptoadi, Veronica L, Susanto Teopilus and Hartono Pranyoto. Contribution of Information and Communication Technology in Improving Access to PBTJJ: A Case Study. Learning.
- Laila Hadri. 2006. Use of the Internet to Support the Lecture Activities of UNIMED Postgraduate Program Students. 2009. Philip Rechdalle. 2005. Internet and Education. ([www.pendidikan.net](http://www.pendidikan.net)).
- Rahardjo, Budi, 2001. Internet for Education. <http://cert.or.id/~budi/articles/internet-pendidikan.doc> Shahab, Alwi. 2000. Internet for the Medical Profession. Jakarta: EGC Soenhadji, Imam Murtono et al. 2008. Prediction of Student Beliefs in the Benefits of Studentsite Facilities Using the Technology Acceptance Model Approach. Yogyakarta: National Seminar on Information Technology Applications (SNATI 21 June 2008). Pages 25-30.
- Kartiningsih. (2007). Analysis of the Influence of Organizational Culture and Work Involvement on Organizational Commitment in Improving Employee Performance (Study at PT Bank Tabungan Negara (Persero) Semarang Branch) (Thesis)
- Kompasiana.com. (2021). fenomena-pembelajaran-jarak-jauh
- Gramedia.com. (2021) <https://www.gramedia.com/best-seller/perbedaan-google-meet-dan-zoom/>.