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## E- LEARNING IS ONE OF SOLUTION OF LEARNING PROCESS IN PANDEMIC SITUATION

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**Abstract:** *This article presents the background of the educational process during the pandemic, one of which is by using electronic learning in various forms such as Google Classroom, Google Meet, Zoom, Skype, OBS and many other forms of electronic learning. This learning is divided into two synchronous and asynchronous. Synchronous is learning in a network that requires media to assist learning such as computers, note books, android and also the internet or network, while Asynchronous is learning that is carried out directly by teachers and students at school or face to face. Thus electronic learning is very helpful for pandemic citizens but this learning is more flexible and can be used at any time depending on specific aims and objectives*

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## INTRODUCTION

2020 is the toughest year for all parties, both for the government agencies, school or parties related to education from the lowest levels, such as early childhood, kindergarten, elementary, junior high, high school, even at the tertiary level or university level until even the smallest parties' experience the impact of this pandemic who do not know when it will end.

This pandemic is known as covid 19 or better known as the corona virus. This virus is a disease that is very quickly transmitted through air or breathing, so the government launched 3M (Masker, Mencuci tangan, dan Menjaga jarak) or it refers to (Masks, Hand Washing, Keeping Distance) and every citizen is required to carry out health protocols as proclaimed by the government.

Based on Huang et al., (2020) quoted by Yuliana (2020: 187), it was stated that Covid 19 was first discovered in a remote area in China called Wuhan in 2019 with 66% of patients affected by the virus in one market seafood or live market in Wuhan so that the affected patients were researched who finally showed a coronavirus infection, so that this virus was called the novel Coronavirus (2019-nCov) on February 11, 2020.

Finally, this virus arrived in Indonesia with so many changes and the impact that was so tense for all parties, both from the government and even the smallest people. All efforts have been made to minimize the transmission of the virus (Covid 19) in various ways, from distributing free hand sanitizers, free masks and providing large water tanks equipped with faucets and soap, even though hand sanitizers are placed in public spaces such as markets, malls, supermarket, etc.

This has a direct impact also on students at elementary, junior high, high school and university levels, they are required or in other words, they are forced to learn through networks or better known as online or the popular term is E-learning. This is done to reduce

the spread of the virus one the way is social distancing.

Based on the Circular of the Minister of Education and Culture of the Republic of Indonesia, Number 4 of 2020 concerning the Implementation of Education Policies in an Emergency the Spread of Coronavirus Disease (Covid-19) at point 2 concerning the learning process from home is carried out with the following conditions:

- a. Learning from home through online/distance learning is implemented to provide meaningful learning experiences for students, without being burdened with demands to complete all curriculum achievements for grade promotion and graduation;
- b. Learning from home can be focused on life skills education including regarding the Covid-19 pandemic;
- c. Learning activities and assignments from home can vary between students, according to their interest and conditions, including considering the gaps in access/ learning activities from home;
- d. Evidence or products of learning activities from home are given qualitative and useful feedback from the teacher, without being required to give a qualitative score.

Online learning or E-learning is one of the ways suggested by related parties to continue the learning system in the current period of time, even though without face-to face learning continues by utilizing technology that has been developed rapidly.

The current learning system really needs a network and even media or tools such as android, laptop or even a notebook and it's really requires more money in this learning process.

In E-learning, networks are very influential in the learning process. This was felt by some of the students who came from remote areas and accessing the network was very difficult and sometimes they had to go up to the highlands and even had to travel thousands of kilos on foot to get to the network when learning was taking place. The main point is the network is very influential, especially for students and teachers who live in remote villages and do not have access to the internet network.

In other words, E-learning is one way of learning that must be applied by school and universities and the skills of teachers must be forces to be more creative when displaying, teaching materials and explaining more clearly the learning materials that will be delivered by teachers and lecturers. As well as making students interested in the material to be delivered and students will automatically want to hear explanations from teacher or lecturer.

The point is that during this pandemic E- learning, especially, requires the creativity of teachers and lectures when the learning process takes place, persuading students to love the learning material that will be delivered by teachers and lecturers in a more creative and innovative way and to explain the material more clearly.

Besides creativity and innovation, a teacher and lecturer must also consider students who live far away in remote villages to get network signals, which is very difficult and they have to struggle to get network signals and consider the economic aspects of their students as well. So there are many things to consider when E-learning takes place.

#### **A. E- Learning Definition**

E- Learning is one of system that use electronic as one of media to help students or teachers in learning process therefore E- Learning it self refers to Electronic device using internet connection. It can be said that Online Learning or Online Education. In spite of "E" in

E-Learning refers to "Electronic". So the original term is "Electronic learning" such as Google Classroom, Google Meet, WhatsApp, Zoom, Skype, OBS and so many thing related to E-Learning application.

Before we know more about internet all of people use all things by manual and everything need more time until it was finished. In 1960s, the first computer has been found it calls CBT (computer based training) and the program known as PLATO (Programmed Logic for Automated Teaching Operations) it was introduced by Isaac Pitman. He was a teacher who was taught his student by correspondence and it was need more time for feedback or reply the message. That's why he found of the program and He was one of the pioneers of E-Learning.

In 1970s, E-Learning becomes more interesting and interactive then it was applied in university student till school student. Based on LLC (2014) said that the teacher can delivered the material through mail and the respond it will be take it sooner.

According to Dublin (2003:2) said that e-learning is used by learners and it was support by the organization. The main point is e-learning can develop rapidly if both of learners and organization will be support each other based on specialization on each of them.

Rossi (2009) in Arkafu, V and Abaidoo, N (2014: 397) said that E-learning as a concept covers a range of applications, learning methods and process. It means that e-learning it can be one of application, learning methods also process that the teacher and learner do as facilitate in learning process.

In addition Wentling et al (2000) stated that the term of e learning refers to achievement of knowledge use and distributed by electronic. It means that e- learning related to computer and network and it was supported by variety of channels for instance wireless and satellite, and supported by technology one of them is cellular phone or android.

Based on Koohang and Harman (2005: 77) said that e-learning is the delivery of education (all activities relevant to instructing, teaching, and learning) through various electronic media. Koohang (2004) in Koohang et al (2009: 92) stated that appropriate instructional design that includes learning theories and principles is critical to the success of e-learning. From this definitions, it can be conclude that E-Learning is one of appropriate tool in learning online and it can be delivery all access include education system one of them is learning online use electronic media.

So based on the experts explanation above, the researcher conclude that e- learning concept is one of strategy or method that the teacher can apply in learning process moreover in Covid 19 situation. The teacher can give the material or do online presentation by using network, computer and cellular phone or android to the students even though they are stay at home and it happens because of support it by the institution or the government.

### **B. The Categories of E- Learning**

There are two categories of e- learning that teacher can apply in learning process. They are synchronous and asynchronous. It was depending on the teacher's choice and the learner should be agreeing with that.

#### **1. Synchronous e- learning**

Synchronous e- learning has been developed in various era include in education life. In online education or online learning there is no face to face contact in real situation (physical meeting). It was need media one of them is computer, phone cellular or android also it was support internet (network).

Based on Abubakar et al., (2017:218) stated that synchronous e- learning need real time teaching or process learning online to the students. It means that both of students and teacher or tutor has to present material during on that time (live streaming). Similarly, Hrastinski, S.,(2007) in Hrastinski, S., (2008: 52) stated that synchronous e-learning, usually supported both of media such as video conferencing and chat in real time situation (live streaming) then it can support e learners in learning process there is interaction or communication between teachers and students by sharing knowledge or ideas in real time.

The benefit of using synchronous e-learning is there is no isolation from the students which make them is more social or they are felt join as participate in learning process, it was support by Hrastinski, S., (2008: 52). It can be conclude that synchronous e-learning it was take place in real time and use video conference or chat as media as one of interaction or communication between teachers and students also make the students include or join in learning process and there is no isolation between them and make them feel more social than usual.

## 2. Asynchronous e-learning

Asynchronous e-learning is one of learning process that it is not need time to be present on time or in real time (situation) and it can be done in previous time without presence of teacher or students. In other words this category of e- learning can be done in offline situation.

According to Almosa and Almubarak (2005) in Algathani (2011) stated that asynchronous e-learning do not need interaction in the same time but it was need another time and it was use email or discussion forum as one of media. Similarly Hrastinski (2007) in Hrastinski (2008: 52) said that it was possible for learner or student to log on when learning process at any times and they can be downloading the materials (documents) or they can send message to teachers or their friends.

Based on the explanation above, the researcher sums up that asynchronous e-learning need independent and it was need takes place in any time, then e-mail or discussion forum is one of the media that teacher and students apply in e- learning process also allow teacher and students (learners) do discussion among both of them.

## C. Advantages and Disadvantages of E- Learning

There are some advantages and disadvantages of E- Learning that appear in e- learning process.

### 1. Advantages of E- Learning

Based on Smedley (2010) said that e-learning contribute the institution as well as their students or learners be more flexibility of time and place based on the learning information. It means that the institution support e-learning process and contribute their student be flexible in time and place.

In addition Zhang et, al (2006) stated that video conference is one of media that support e-learning and there is interaction between teacher and students also they can watch and listen teacher so many times in all activities since e- learning process. Based on Marc (2002) stated that e-learning is one of strategy in digital era it can deliver knowledge and it was focus on individual (learner) need as be one of important factor rather than teacher's need.

The conclusion is e-learning should be support by institution, the learner need is more important factor rather than teacher need also video conference is one of media and there's interaction between teacher and students in e-learning process.

## 2. Disadvantages of E-Learning

According to Burdman (1998) in Arkoful and Abaidoo (2014: 402) stated that e-learning is lack of absence of meeting person in face to face or eye contact directly or vital personal interaction between teacher and students. Similarly, Almosa (2002) said that e-learning as one of method that apply and it was need management time that it was manage by the teacher and students in e- learning process.

In addition, Collins et al (1997) said that e-learning use some websites and it was need more money to spend it. It was unanticipated costs and time. The main point is e-learning use websites and it was unanticipated costs and time, both of them are disadvantages from e-learning process.

Based on the theories above, the researcher conclude that e-learning is lack of meeting person in face to face contact or eye contact or there is no personal interaction between the teacher and the students, it was need management time arrange by teacher and the students and the last one is need much money and time that have to be spend it because e-learning use some website in all of time.

## D. E- Learning is one of solution in learning process

The fact that the students, teachers also lecturer have felt about the solution of learning process use E- learning. Many researchers

## CONCLUSION

E- Learning is one of alternative system in learning process especially in pandemic situation now and it's really strange for some of students or teachers/ lecturers heard about it also they are so confused when E- Learning be one of alternative system that government role since pandemic was arrive to our country.

There are some of categories of E- Learning such as synchronous and asynchronous. Synchronous is E-Leaning system there is no face to face contact in the real situation or meet each other in the real one or there is no physical meeting anymore it will use computer, android as one of media also it's really need internet access or internet network, such as what we have been done right now since pandemic was appear in our country. Moreover, Asynchronous is E-Learning that need face to face contact, such as the system that we ever do before the pandemic was appear in our country. We need to be on time came the school or university also it's really need present on that time. In other words it can be done in offline situation.

There are some advantages and disadvantages of E-Learning such as the advantages of E-Learning is everything should be support by the institution, the learner need is more important factor rather than teacher need also video conference is one of media and there's no interaction since learning process. Then, disadvantages are lack of meeting person in face to face contact or there is no personal interaction between teacher and student, it was need management of time arrange by the teacher and the student then the last one need much money and time to spend it because e-learning use some website in all of time.



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