PARADIGM OF ONLINE LEARNING IN HIGHER EDUCATION
PARADIGMA PEMBELAJARAN ONLINE DI PENDIDIKAN TINGGI

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ABSTRACT

The Role of Information and Communication Technology is currently very influential in supporting the various activities undertaken by humans. Universities as a place to produce great human resources constantly looking for innovations to how it can be generate good quality resources through qualified teaching staff, support facilities, and even methods of learning of interest to learners. Good learning process certainly affect the learning conditions of students. In answer to the current challenges must be found appropriate solutions and to answer the needs that exist. Online learning is a learning paradigm that is currently used by college as a one of the solutions in the learning process is carried out in universities. Online learning as based learning online provides convenience in the process of teaching and learning to lecturers and students at the University.

Keywords: Learning, Media, Online Learning, Higher Education.

1. INTRODUCTION

Information and Communication Technology is currently developing very rapidly, a lot of innovation and development that occurs. This is certainly an impact to various fields and human activities. The field of education was not able to escape the impact of developments in the field of Information and Communication Technology today. Supporting the existing situation, of course, the necessary resources that are competent and qualified to support existing technologies [7,11].

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Universities today are very challenged in providing human resources and qualified for the world of work, so that the current College sees the need will increase the quality of education provided [8,9]. The success of the learning process must be supported by a number of factors, ranging from teaching staff who are competent, adequate facilities and infrastructure, media and even capable of learning to encourage students to be interested in learning [10].

A wide variety of variations in teaching and learning should intervene in the lecture, where the media an appropriate alternative in achieving the success of the learning process. The learning process is evolving today is Online Learning [7,8]. Online Learning is an online-based learning, where learning is done by using a mobile phone or media computer hardware and conducted online by means of the internet [10].

2. THEORITICAL BASIS

2.1. Learning

Learning is an activity that a person or group of people who have the purpose to find out useful to develop knowledge possessed. Learning is a process where the behavior (in the broad sense) generated or modified through practice or exercise. Learning can also be interpreted as an activity that is indicated by a change in behavior as a result of the experience. Learning is also an individual process attempts to obtain a new change in behavior as a whole, as a result of the experience of the individual in interaction with the environment [1]. Learning in a broad sense can be defined as a psychophysical activities leading to the development of the whole person. Later in the narrow sense, intended as an effort to learn mastery of materials science which is part of activities towards the formation of the whole personality [6]. The theories of learning can be seen in Table 1.

Table 1. Definition of Learning [12]

<table>
<thead>
<tr>
<th>No.</th>
<th>Definition of Learning</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Learning is a complex process that happens to everyone and lasts a lifetime, since he was a baby up to the grave later (Sadiman, et al., 1986: 2).</td>
</tr>
<tr>
<td>2</td>
<td>Learning is a relatively permanent change in behavior as a result of the experience (not as a result of development, the influence of drugs, or accident) and can execute on any other knowledge and be able to communicate it to others (Pidarta, 2000: 197).</td>
</tr>
<tr>
<td>3</td>
<td>Learning requires a relatively permanent change in knowledge or behavior due to experience (Mayer 1982: 1040 in Seels &amp; Richey, 2000: 13).</td>
</tr>
<tr>
<td>4</td>
<td>Learning is an activity of everyday people. Learning is a complex process that happens to everyone and lasts a lifetime. Learning activities that form a complex behavior that has long been the object of research scientists. Because of the complexity of learning, a lot of theories that attempt to explain how the process of learning that happens (Miarso, 2004: 550).</td>
</tr>
<tr>
<td>5</td>
<td>Genesis relatively simple, namely imitation, was initially complex and has implications for learners and learning (Gredler, 1994: 6-7).</td>
</tr>
</tbody>
</table>

2.2. Media

In the process of learning in which communication occurs. Where the communication process that occurs with the use of media. The role of the media in the learning process as a means to channel science both from teachers to students and vice versa. In Table 2 there is some understanding of media.
2.3. Online Learning

Contemporary society living in an age of knowledge-based society, which the public is able to receive and impart information and knowledge to support developments in the field of Information and Communication Technology.

Enhance the development in the field of ICT invites the public to be able to empower the existing resources as a means to increase knowledge. In this case related to the development of quality human resources through increased knowledge either through the use of technology-based online and offline. As some sense according to experts on the definition of Online Learning can be seen in Table 3.

Table 3. Definition of Online Learning [3]

<table>
<thead>
<tr>
<th>No</th>
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<tbody>
<tr>
<td>1</td>
<td>According to the Ministry of Education (2003), medium term derived from the Latin word is the plural of &quot;medium&quot;, which literally means an intermediary or introduction. General meaning is anything that can distribute information from the information source to the receiver of information. The learning process is also essentially a process of communication, so that the media used in learning called learning media. Learning media is part of the learning resource which is a combination of software (learning materials) and hardware (appliance learning).</td>
</tr>
<tr>
<td>2</td>
<td>Association for Education and Communication Technology (AECT), defines the word as all forms of media and channels that are used to process information.</td>
</tr>
<tr>
<td>3</td>
<td>National Education Association (NEA) defines media as any objects that can be manipulated, seen, heard, read or discussed along with the instruments used for such activities.</td>
</tr>
</tbody>
</table>

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Heinich, et al (1982) defines the term media as "the term refer to anything that carries information between a source and a receiver".

Marshall McLuhan (in Oemar Hamalik, 2003: 201) argues that the media is an extension that enables humans affect others who do not hold a direct contact with him.

2.4. Application to Support Online Learning

Internet is a combination of computer networks which are connected between one place and the other places that have a broad reach. Use of Internet is today also felt in the education sector, especially at the college. Facilities provided via the Internet so much so that it is able to provide convenience and comfort for its users. According Purbo, 1996 there are five standard Internet applications that can be used for learning purposes, this can be seen in Table 4.

Table 4. Standard Applications Internet Based for Learning by Purbo, 1996 [12]

<table>
<thead>
<tr>
<th>No</th>
<th>Application</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>E-mail</td>
<td>E-mail or (Electronic mail) or electronic mail allows one to send and receive mail through the Internet. E-mail is a facility that is the simplest, most easy to use and widely used by computer users. E-mail is a facility that allows two or more people who are not doing personal communication synchron (asynchronous communication mode) or not real time.</td>
</tr>
<tr>
<td>2</td>
<td>Mailing list (Milis)</td>
<td>Mailing list is expanding the use of e-mail, with this facility learners who already have e-mail addresses can join in a group discussion, and through this mailing list can conduct discussions to solve a problem together, with each providing advice solving (brainstorming). Communication through this mailing list has properties similar to e-mail, which is not synchron (asynchronous communication mode) or be un-real time.</td>
</tr>
<tr>
<td>3</td>
<td>File Transfer Protocol (FTP)</td>
<td>FTP is the Internet facility that makes it easy for users to be able to send (upload) and take the archive file (download) in a server connected to the Internet at a specific address that provides various archives (files), which is allowed to be taken by other users who need, This file can be the result of research, articles Journal and others. In addition, FTP is also used to upload the file content from a website (homepage) that can be accessed by users all over the world.</td>
</tr>
<tr>
<td>4</td>
<td>News Group</td>
<td>News groups on the Internet is a communication facility to conduct advance of two or more people simultaneously in the same sense of time (real time), and thus the means of communication is done synchron communication (synchronous communication mode). Forms are commonly known as the meeting rooms, and facilities</td>
</tr>
</tbody>
</table>
used can be fully multimedia (audio-visual) using video conferencing facilities, or text only or text with audio by using our chat (IRC).

5 World Wide Web (www) www is a collection of a large collection of the various documentation stored in various servers around the world, and documentation were developed in the format of hypertext and hypermedia, using Hypertext Markup Language (HTML), which allows the connection (link) documents with each other well in the form of text, visual and others.

3. RESEARCH METHOD
Type of research in this study is a kind of exploratory research/exploratory. This kind of research aims to find new relationships contained in a vast and complex problems. The study also aimed to gather data as much as possible. Having analyzed the expected result could be a hypothesis for subsequent research and exploratory research itself was not wearing a hypothesis, because of the complexity of the data to be examined may not be formulated or cannot be arranged hypothesis [2]. Based on the type of research that exists, we then compiled the research methods to be performed. Research Method here as a method or technical perpetrated in the course of research hypothesis [2]. So in this study the method / technical research can be seen in Figure 1.

Figure 1. Research Method
4. **RESULTS AND DISCUSSION**

4.1 The Implementation of Online learning in Higher Education

The development of technology developed at this time as we know evolved in all areas of activity. Educational one of which affected the development of technology. This research will be presented some of the services that support the learning-based online learning in universities and the research areas namely in Sam Ratulangi University, an online-based services that support Online Learning can be seen in Figure 2 and 3.

![Figure 2. Portal Inspire](image)

In Figure 2 and 3 can be seen Portal Inspire service provided by Sam Ratulangi University to support the learning-based online learning. Through Portal Inspire as an platform which is an online-based service that makes it easy to lecturers and students in conducting lectures namely data related lectures lecturers and students' academic record. There are services E-Learning is a useful service as a means of remote communication between faculty and students, which provides opportunities between faculty and students to be able to communicate and consult on learning activities and even become a means for the publication of lectures of lecturers thus facilitate students in the process learning, and more features provided by Portal Inspire to support learning and teaching activities in the university.
4.2 Relation between Online Learning and Services of Learning Online based.
The relationship between online learning and Services of Online Learning and then created Online Learning based on research can be seen in Figure 4.

![Figure 4. Features of Portal Inspire](image)

Figure 4 is a picture of Online Learning. Can be seen there is a relationship between students and lecturers through the use of services of online learning based, which in this study a Portal Inspire. The use of online learning based services of Online Learning which is formed using one of the services provided which is an online-based services as a medium for teaching and learning among lecturers and students.

5. CONCLUSION

The college is an institution that is responsible for generating qualified human resources. The college has a high responsibility through the creation of resources to improve the quality of educational services provided. Online Learning is an online-based learning method that applies learning by using online-based services as a means of communication between faculty and students, as a service provider of information and knowledge that is useful in lectures. Their online-based services to support online learning-based learning is expected to provide better academic atmosphere, so it will affect the quality of human resources is generated.

DAFTAR PUSTAKA