



Understanding the Use of Information Technology as a Supporting Media for Student Learning at SMK Negeri 1 Lubuk Pakam

Ella Silvana Ginting¹, Apren Halomoan Hutasoit²

^{1,2}Management Study Program, STIE Mikroskil

E-mail: ella.silvana@mikroskil.ac.id

ARTICLE INFO

Article history:

Received: 01/12/2020

Revised: 10/12/2020

Accepted: 03/01/2021

Keywords : Internet, Industrial Revolution 4.0, SMKN 1 Lubuk Pakam

ABSTRACT

In the industry 4.0 revolution the current desirable data was faster, and practical to acquire. Especially among the students of the vocational high school did much to learn about theoretical understanding and with the practice of fieldwork. But in the performance of the theoretical learning process, students are no longer capable of critical thinking on a matter or a case given by their teachers. On these occasions, students go about participating in activities to encourage and enlighten students about how to use good information technology. This service was carried out in a vocational high school (SMK) state 1 to 336 students of all the various vocational. This activity is carried out using the method teacher centered, which is to provide material exposure to students regarding the use of the internet. To get an information on concerning students understanding in using the internet first post test and after service activities have been done pre-test for. As a result of this activity, which students unutilally assume that either the articles or information they obtain over the internet are just as good for job completion needs without sorting things out first, and once this dedicated activity opens up the minds of students that the informations can open up new opportunities for them to complete their education in vocational high school state 1 Lubuk Pakam.

Copyright © 2021 Jurnal Mantik.
All rights reserved.

1. Introduction

The rapid development of the world of technology and communication has had many impacts on all of us, both positive and negative impacts, especially on educational institutions in the 21st century which are very complex. [1]. In the era of the Industrial Revolution 4.0, there were limitations between humans, machines, information and communication technology that had an impact on aspects of life[2]. One of them is the internet as a learning medium, a place where students can get information quickly[3].

The advantages of the internet are what students often use as well, in this case, the students of SMK Negeri 1 Lubuk Pakam to make it easier for them to do assignments or find reference sources during their education. [4]. The internet is not a substitute for the education system, but is complementary[5]. As with plagiarism or what is popularly called copy paste. Some of the students will think that copying articles and information from the internet without including the source is normal. Even though it is clear that this activity is plagiarism which means not respecting other people's written works[6].

Copy and paste activities also create laziness in students. Because information can be found easily, they will prefer to copy other people's work compared to making their own articles[6]. This feeling of laziness makes students lazy to think and as a result their abilities and knowledge do not increase. Whereas by writing they will think creatively and critically. This copy and paste activity stems from the absence of guidance or direction to students of SMK Negeri 1 Lubuk Pakam on how to collect information on the internet today. The method referred to in this case is the understanding framework of the students of SMK Negeri 1 Lubuk Pakam in filtering the information needed to support student learning.

Less effective learning activities at SMK Negeri 1 Lubuk Pakam in terms of the role and presence of teachers in the classroom is also an influencing factor, where there is no guidance from the teachers concerned about how to find information from the correct source, and how to adjust it accordingly. the needs of students of SMK Negeri 1 Lubuk Pakam.

With advances in technology, it makes it easier for students to search for learning materials that have not been provided by their teachers, and that is what makes students lazy to read books because everything is available on the internet [7]. Even though in this case the book is a source of understanding how the students



of SMK Negeri 1 Lubuk Pakam to collect data, collect information and adjust it according to their respective needs.

Lack of knowledge of students of SMK Negeri 1 Lubuk Pakam about appropriate sources of information retrieval, appropriate blogs or websites as well as the preparation of writing scientific papers such as assignment proposals, causing copy paste or plagiarism [8]. This is very dangerous for the students of SMK Negeri 1 Lubuk Pakam in the future where there will be instantaneous characters, cheating and a sense of the right to think because of the habits they do.

Students and the internet are something that can go hand in hand and help the learning process. Of course, students who really use the internet well will have a positive impact on them. And conversely, students who use the internet poorly will have a negative impact on these students. From the large amount of learning information on the internet, students take a lot of information from the internet and no longer make a culture of reading books, where the information on the internet is not necessarily correct. This makes students instill in themselves for instant work without process, namely not reading books as a true source of information and no longer doubting the truth of books because they have several stages in publishing the book.

The spread of copy paste culture among students of SMK Negeri 1 Lubuk Pakam, lack of understanding of students of SMK Negeri 1 Lubuk Pakam in gathering information, lack of understanding of students of SMK Negeri 1 Lubuk Pakam regarding appropriate sources of information, lack of understanding of students SMK Negeri 1 Lubuk Pakam in the context of the need to filter information, reduced interest in reading books of students of SMK Negeri 1 Lubuk Pakam. The emergence of the internet as a medium that can be used by students should be able to provide progress for students to be able to gain knowledge from various sources[9]. Internet media should also be able to improve the quality of materials obtained by students so as to create an innovative learning process [10].

2. Methodology

Regarding the problems and programs that will be carried out to overcome the problems mentioned above, the solutions proposed to overcome and solve these problems are carried out by the methods:

- a. Giving pre-test questionnaires to 336 students of SMKN 1 Lubuk Pakam consisting of, majoring in beauty, and majoring in automotive.
- b. The pre-test results were collected after being filled in by the students for 15 minutes.
- c. The team presented material to students on how to use internet facilities properly.
- d. After the team gave the presentation, the team conducted a post-test evaluation to the students who participated in the activity.
- e. The team compared the results of the pre-test with the post test.

3. Result

In the activities that have been carried out regarding the understanding of students knowing the use of the internet as a learning support medium, it shows that there are still many students who do not fully understand the internet supporting media to support their learning. The results of this PKM activity can be seen through the pre-test and post-test results in the following table:

Table 1.

Pre-Test and Post Test

Statement	Pre-test	Post-test
Information on the internet helps in completing tasks	3,2	4.02
I understand easily looking for the information I need	2.9	3,9
I always use internet technology media to help the learning process	3.5	4.09
I easily understand how to retrieve the required information data	3	3.93
I took information from the internet without reading the book first	3.8	2.15
I am confused about choosing an article that suits my needs	3.8	2.09
I prefer looking for information on the internet rather than asking the teacher	4	3.37
The information I read on the internet is easier to	3,7	2.68



Statement	Pre-test	Post-test
understand than reading a book		
I read the information without looking at the source	3,7	2.59
I retrieve all the information without changing it at all for the needs of my assignment	3.5	1.46



Fig 1. Material Presentation by the Team



Fig 2. Photo with Participants

Based on Table 1 and the results of the discussion of questions and answers with the students of SMK Negeri 1 Lubuk Pakam, there are several things from each of the statements we found, namely: Statement 1, from the initial average answer is quite up to agree, in This is the result of discussions with students that during their work they always retrieve information from the internet and many of them only change the writing format.

Statement 2, from the initial average answer is sufficient to agree, where initially students do not understand how to distinguish information that is a need or information that is only used as material for completing assignments. Statement 3, in this case the students assume that by typing keywords in google search, they can easily get information without having to read basic theory first. So that this convenience makes them more happy to find information through google search.

Statement 4, so far students assume that every article that appears after typing keywords in google search. Statement 5, this is what students do most often, so that they consider every article that appears worthy of being used as material, which sometimes does not read the entire contents of the article. This is because there is no sufficient theoretical basis to serve as a basis for students' understanding.

Statement 6, the pre-test results are close to agreeing answers, this is a result of the students' lack of understanding of their needs for this information. The students assumed that every article that appeared after typing keywords in google search was the answer and considered the contents of the article to be 100% correct. Statement 7, some of the input from students is because for them the teacher's explanation is not as much as the information they find through article searches on google search. Apart from that, teachers often leave the classroom during study hours so that it makes students feel more practical to ask google search. Statement 8, this is due to a lack of diligent reading culture in students,

Statement 9, in this case we find that students do not understand how to distinguish article sources. So that sometimes the articles they copy and paste have different knowledge backgrounds with the students' needs. Statement 10, this is most often done by students due to a lack of understandings such as statements 1 to 9 above. But it is hoped that after this service is carried out, in the future they will understand how to use

information technology properly so that the task is not only completed but also adds benefits to the students of SMK Negeri 1 Lubuk Pakam.

4. Conclusion

This activity was carried out with the aim of providing students with an understanding that the internet media is not a tool for practical learning activities, but provides very broad information. From the results of this activity, it was found that the students of SMK N 1 Lubuk Pakam could understand and be wise in using the internet as a learning resource. From the results of the post test, it can be seen that there is a significant increase in students' understanding of the internet. From the results of this activity, students became aware that copy and paste activities were incorrect learning activities.

5. References

- [1] M. Husaini, "Pemanfaatan teknologi informasi dalam bidang pendidikan (e-education)," *MIKROTIK J. Manaj. Inform.*, vol. 2, no. 1, 2017.
- [2] K. G. Fomunyan, "Education And The Fourth Industrial Revolution: Challenges And Possibilities For Engineering Education," *Int. J. Mech. Eng. Technol.*, vol. 10, no. 08, pp. 23–25, 2019.
- [3] A. Gafar, "Penggunaan Internet Sebagai Media Baru dalam Pembelajaran," *J. Ilm. Univ. Batanghari Jambi*, vol. 8, no. 2, pp. 36–43, 2017.
- [4] A. S. Rafika, H. Y. Putri, and F. D. Widiarti, "Analisis Mesin Pencarian Google Scholar sebagai Sumber Baru untuk Kutipan," *J. Cerita*, vol. 3, no. 2, pp. 193–205, 2017.
- [5] M. Kristiyanti, "Internet Sebagai Media Pembelajaran Yang Efektif," *Maj. Ilm. Inform.*, vol. 1, no. 1, 2010.
- [6] I. R. DIAHTANTRI, "PRAKTEK PLAGIARISME DALAM PEMANFATAAN INFORMASI MELALUI INTERNET DI KALANGAN SISWA SMA." UNIVERSITAS AIRLANGGA, 2019.
- [7] A. Muhson, "Pengembangan Media Pembelajaran Berbasis Teknologi Informasi," *J. Pendidik. Akunt. Indones.*, vol. 8, no. 2, 2010.
- [8] B. B. Sharma and V. Singh, "Ethics in writing: Learning to stay away from plagiarism and scientific misconduct," *Lung India Off. Organ Indian Chest Soc.*, vol. 28, no. 2, p. 148, 2011.
- [9] M. Effendi, "Integrasi Pembelajaran Active Learning dan Internet-Based Learning dalam Meningkatkan Keaktifan dan Kreativitas Belajar," *Nadwa*, vol. 7, no. 2, pp. 283–309, 2016.
- [10] N. Nasrun, F. Faisal, and F. Feriyansyah, "Pendampingan Model Pembelajaran Inovatif di Sekolah Dasar Kecamatan Medan Selayang Kota Medan," *J. Pengabd. Kpd. Masy.*, vol. 24, no. 2, pp. 671–676, 2018.

