

The Contribution of Internet Utilization towards the Student Learning Outcomes

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Abstract: The emergence of the internet has a major effect on human life, including in education. The internet contributes to academics so that it has a very important role for student learning success. This research aims to describe the contribution of internet utilization as a learning resource towards the student learning outcomes at SMA Negeri 2 Padang. This study used a descriptive quantitative research method, and the data were analyzed by using the simple linear regression. The population of this research was 920 students of SMA Negeri 2 Padang, and the sample chosen was 279 students selected by using the proportional random sampling technique. The research instrument used was a scale of internet utilization with a Likert model. The findings of this research showed that the use of the internet as a learning resource contributes towards the student learning outcomes at SMA Negeri 2 Padang with an effective contribution 40.4%.

Keywords: Internet Utilization, Learning Outcomes

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Introduction

Education has an important role in the process of increasing human resources, by individual education will get provisions in facing the next life in the future because by education, life is expected to be better. The essence of education is the learning and learning process (Putri, S, &Neviyarni, 2013). Talking about education cannot be separated from the efforts that must be made to create competent and quality human resources for future generations. The efforts that can be done are utilizing various educational institutions (Ramdhani, M. 2017). The school environment is a place to meet the various needs of students in determining the quality of student life in the future, as well as developing the potential of students (Mariah, Neviyarni&Jamna, 2016).

The low quality of education and the low quality of education in Indonesia need the attention of all parties. According to the Education for All (EFA), Global Monitoring Report released by UNESCO (2014), Indonesia's education development is ranked 64th out of 120 countries. The quality of education is closely related to learning outcomes. Basically, learning outcomes are a set of abilities that must be mastered by students in the form of mastery of expected competencies in terms of cognitive, affective, and psychomotor

which are manifested in the form of learning outcome test scores after the learning process ends (Siagian, & Tanjung, 2012).

Learning outcomes are also a reflection of learning efforts. The better the learning efforts the students have is the better the learning outcomes achieved by students. Learning outcomes determine the success or failure of education. Therefore, learning outcomes have an important role and function for students in education (Syarif&Munandar, 2017). Other researchers added that learning outcomes are a measure of the success obtained by students after carrying out the learning process (Listyanto, 2013). In connection with that, another study suggests that student learning outcomes are influenced by the patterns of internet utilization as a good and appropriate learning medium (Galuh, C. P. 2019).

Learning outcomes are expressed in numbers. The result of the student learning outcomes reports is one that can measure student learning success. Students will feel proud and happy if the results they achieve are very good. The achievement of student learning outcomes is determined by the students themselves through tests and evaluations of the material that has been taught (Mulawarman, 2019).

In fact, there are still many students who have problems in the learning outcomes. A study conducted by Fangestu (2015) at a public high school in West Sumatra revealed that 30% of the students grade XI have low learning outcomes. The problem that was found by other researchers was based on the students' midterm test scores. Of 147 students there were 40% of them reached the KKM, namely 58 students and 60% or 89 students, where these scores were below the Minimum Completeness Criteria (KKM) standard set by the school 75.00 (Azwar, E. 2017).

Utilizing learning media such as the internet as a learning resource is very good and relevant to use in the learning process due to the benefits the benefits, school curricula and demands in this era (Fitriani&Zulhendra, 2014; Aulia&Aristin, 2016). The use of the internet as a learning medium or learning resource conditions students to learn independently, actively and creatively (Sergi et al., 2016). Learning resources can affect student learning outcomes. The more resources that are used as the learning resources especially with the existence of the internet, it will have a positive impact and be able to make a large enough contribution to the learning outcomes that will be achieved by students (Ismail, 2017).

The internet has many benefits, especially in the educational process (Ardi, 2014; Ardi, Ibrahim, & Said, 2012; Daharnis&Ardi, 2016; Restu, Yusri, &Ardi, 2013). The teacher will find it helpful to explain and provide learning material to students if they use the internet because students will quickly understand the material presented by the teacher. If students need additional knowledge related to the material being studied, they can access the internet very easily. Furthermore, the use of the internet can make the relationship between teachers and students also closer because by utilizing existing features on the internet students and the teacher can discuss everything including students' complaints to the teacher (Angga, W. 2016). The selection and the positive use of the internet as a learning resource can enrich knowledge and experience, and it meet the needs of the students in achieving effective and efficient learning success (Primadita, 2016). By utilizing existing facilities on the internet, students will get the latest information because the internet can provide the most complete information. The main internet facility used by students is Google (Galuh, C. P. 2019). The importance of using the internet in this century requires students to be able to find information, material, complete assignments, and develop their knowledge and skills. (Akpan, I &Akpan, A. 2017).

Based on the explanation above, it can be seen that the use of the internet as a learning resource is a factor that affects student learning outcomes. Therefore, to improve student learning outcomes, various forms of services are needed by the Guidance and Counseling (BK) teacher in achieving developmental tasks. Sitohang, Yusuf &Daharnis (2013) explain that the more developmental tasks that can be passed properly is the better the achievement of the tasks of adolescent development so that they can reach physical and psychological maturity. One of the academic areas of students that the BK teacher must optimize is the personal development, ability to utilize technology, and learning, especially learning outcomes. Therefore, this research can help BK teachers to carry out the guidance function optimally.

Based on the description that has been described above, it can be concluded that some students of SMA Negeri 2 Padang still have problems related to learning outcomes. Therefore, it is important to have a comprehensive study of the things that contribute to the difficulties experienced by the students of SMA Negeri 2 Padang. This research is important to be conducted in order to obtain information about how the contribution of the internet utilization as a learning resource towards the student learning outcomes at SMA

Negeri 2 Padang. Thus, the contribution of internet utilization towards the student learning outcomes will be seen. On the basis of these thoughts, it is necessary to carry out a scientific research.

Method

This research was a descriptive qualitative research and used a simple linear regression analysis technique. The population of this research was 920 students of SMA Negeri 2 Padang. The sample was 279 students selected by using the proportional random sampling technique. This technique is used because the number of each population is not homogeneous. By using this technique, the number of the sample at each stratum is proportional to the number of members of the population. The instrument used in this research was a scale of internet utilization with a Likert model that had been tested for validity and reliability first and learning outcomes using the semester's pure value. The research data were analyzed through the simple linear regression technique because it was to identify the contribution of the internet utilization variable (X) towards the learning outcome variable (Y). The data analysis was assisted by using the SPSS program.

Results

Table 1. The Results of Simple Linear Regression Test about the Contribution of Internet Utilization as a Learning Resource (X) towards the Student Learning Outcomes (Y)

Variabel	R	R Square	Sig.
X- Y	0.636	0,404	0,000

Table 1 above showed that the R value is 0.636 that is the correlation coefficient of internet utilization towards student learning outcomes. The value of R Square (R²) is 0.404. It means that there is 40.4% of the contribution of internet utilization towards the student learning outcomes while the remaining is 59.6% explained by other variables. It can be concluded that the higher the students use the internet as a learning resource is the better student learning outcomes. This result means that to improve student learning outcomes it can be done by increasing the use of internet by the students. Thus, the higher the use of the internet is the higher the student learning outcomes.

Discussion

The Internet Utilization as a Learning Resource

The use of the internet for student learning outcomes at SMA Negeri 2 Padang was divided into two categories: high and medium. The results of the research data analysis showed that the overall use of the internet towards the student learning outcomes was in the high category. This shows that the use of the internet that is applied by students is used positively for learning as it should be. The role of the internet is quite large in today's learning activities. Students and teachers often use the internet to search for the literature needed in academic activities including learning activities (Kaliky, P. 2016; Aulia&Aristin, 2016). The use of the internet has a good effect towards student learning outcomes, previously the learning system which sometimes tends to be boring with the existence of the internet for more innovative learning and students feel helped in finding suitable learning materials (Yunelti&Marjohan, 2013; Sergi et al., 2016; Yuni, D . 2018).

The positive use of the internet as a learning resource is one of the most appropriate and up-to-date methods to be applied today by students in facilitating the completion of their learning tasks. The use of the internet as a learning resource is used to find information, search for subject matter, facilitate exam preparation, complete school work, and develop students' insights and skills. By using the internet as a learning resource, it can enrich knowledge and experience, and it meets the needs of students in achieving effective and efficient learning success (Primadita, 2016; Maisaroh, et al., 2019). Based on some of the research findings, it shows that by using the internet, students find it easier to find learning materials and this helps students to complete school work, and helps them get high grades (Akpan, I &Akpan, A. 2017; Livingstone, S ., Mascheroni, G., Staksrud, E. 2017; Febiantika, G., et al., 2019). This means that the use of the internet as a learning resource has a positive and significant effect on student learning outcomes.

The internet makes it easier for students to get the latest information because the internet is a learning resource that can provide the most complete information. One of the learning resources currently developing is the internet (Erizka&Usman, 2011; Azwar, 2017). The school facility which is internet used by students as a learning resource and the top priority of the internet features used is Google. Learning using the internet will help students find answers to assignments given by the teacher. Therefore, the use of the internet as a learning resource is very helpful for students in the learning process (Ravizza, S., Uitvlugt, M., Fenn, K. 2016; Galuh, CP 2019). Learning resources can affect student learning outcomes. The internet has a positive and significant effect towards student learning outcomes (Pratiwi, et al. 2010; Ismail, 2017). Students who are able to use the internet positively and used as an appropriate learning resource will have competent and high cognitive, affective, and psychomotor (Sahin, et al, 2010; Listyanto&Munadi, 2013; Akpan, I &Akpan, A. 2017).

The efforts that can be done in developing the student competence in using the internet as a learning resource are to familiarize the students with using the internet for positive things, looking for subject matter, using the internet in facing exams, discussing groups, doing assignments, training themselves to be wise in using the internet, gaining knowledge and develop skills. Therefore, the BK teachers or counselors have an important role in increasing the pattern and intensity of students in using the internet appropriately wherever they are. Putra, Daharnis&Syahniar (2013) also explained that BK teachers have a very important role in developing the potential of students so that they are able to empower all their potential to become useful individuals. In addition, the teachers also have an obligation to help their students when the students have problems in developing their abilities.

Learning outcomes

Student learning outcomes at SMA Negeri 2 Padang was divided into three categories: very high, high, and quite high. Based on the results of the research data analysis, the mean showed that the overall student learning outcomes are in the high category. Students who have good learning outcomes are students who achieve grades that meet the expected standards, namely above the KKM. Student learning outcomes are categorized very well if they are able to meet the criteria on the cognitive aspect.

Basically, learning outcomes are a set of abilities that must be mastered by students in the form of mastery of expected competencies in terms of cognitive, affective, and psychomotor which are manifested in the form of learning outcome test scores after the learning process ends (Siagian, & Tanjung, 2012). Learning outcomes are also a reflection of learning efforts. The better the learning efforts the students have is the better the learning outcomes achieved by the students. Learning outcomes determine the success or failure of education. Therefore, learning outcomes have an important role and function for students in education (Mawarsih, & Susilaningsih, 2013; Syarif&Munandar, 2017). In connection with the study conducted by Okyere, C.Y. (2020) it was found that internet has a major effect on student education, including the academic field that is the proper use of the internet facilities.

Learning outcomes are the final goals that students obtain from their intelligence and skills. Then, these skills are obtained from their various learning experiences as outlined in the form of reports on learning outcomes during a certain period. Learning outcomes are used as a measure of the success obtained by students after carrying out the learning process (Listyanto, 2013; Sutrisno&Siswanto, 2016). Thus, learning outcomes are related to students' abilities in understanding a subject matter.

Conclusion

Based on findings of this research, it can be concluded that on average the use of the internet as a learning resource is in the high category and the student learning outcomes are in the high category. Furthermore, the use of the internet contributed significantly towards the student learning outcomes by 40.4%. It means that the higher the students use the internet as the learning resource is the higher the student learning outcomes.

This research can be the input for all parties involved in the education process, especially the BK teachers / counselors in making BK service programs in schools. The BK teachers / counselors can provide guidance and counseling services such as group guidance services, content mastery, group counseling, individual counseling, and information services with the material about using the internet to support student achievements, complete study assignments, explore material and answer questions, and improve student learning outcomes to be better in the future.

References

- Aulia, N., Normelani, E., & Aristin N. F., (2016). Pengaruh pemanfaatan internet terhadap hasil belajar geografi siswa kelas XII IPS MAN 2 Kandangan. *Jurnal pendidikan geografi* 3(4), 28–39.
- Akpan, I & Akpan, A. 2017. The impact of internet use on students' learning outcomes in higher education in developing countries. *International journal of education research, volume 12, number 1*.
- Angga, W. (2016). Pemanfaatan ecocommunity dan social networking sebagai sumber dan media pembelajaran peserta didik. *International Journal pedagogy of social studies* 3(2).
- Ardi, Z., Ibrahim, Y., & Said, A. (2012). Capaian tugas perkembangan sosial siswa dengan kelompok teman sebaya dan implikasinya terhadap program pelayanan bimbingan dan konseling. *Konselor*, 1(2).
- Azwar, E. (2017). Perbedaan hasil belajar menggunakan media belajar internet dengan power point di SMAN 19 Medan. *Jurnal Penelitian*.
- Daharnis, D., & Ardi, Z. (2016). The compatibility student choice of university majoring; a preliminary study. *Guidena: Jurna Ilmu Pendidikan, Bimbingan dan Konseling*, 6(1), 101–109.
- Erizka, R., & Usman, E. (2011). Artikel penelitian hubungan kejadian internet addiction dengan prestasi belajar pada Mahasiswa FK Unand. *jurnal FK unand*, 5(3), 625–629.
- Fangestu, N. S., Samarein, Z. A., Yekleh, M., Tahmasebi, S., & Yaryari, F. (2014). Relationship between the components of emotional intelligence and internet addiction of students in Kharazmi University. *International journal Psychology Behavior Res*, 3(1), 60–66.
- Febiantika, G., dkk. (2019). Internet as a resource of learning in increasing students' learning outcomes on social studies subject. *International journal pedagogy of social studies. Vol. 4 no. 1* 57-63.
- Fitriani G, & Zulhendra, A. J. (2014). Kontribusi motivasi dan pemanfaatan akses internet sekolah sebagai sumber belajar terhadap hasil belajar pada mata pelajaran KKPI siswa kelas XI Multimedia di SMK Negeri 2 Padang Panjang. *Jurnal Pendidikan*.
- Galuh, C.P. (2019). Utilization of internet content as a learning sources of social studies. *International journal pedagogy of social studies*, 4 (1), 9-16
- Ismail, K. (2017). Pengaruh penggunaan internet terhadap hasil belajar IPS peserta didik kelas X SMK Nurul Huda Sukaraja OKU Timur. *Jurnal Ilmiah Pendidikan dan Ekonomi*, 1(1), 58–64.
- Kaliky, P. (2016). Pemanfaatan internet dalam pembelajaran siswa di SMAN 4 pattimura, Ambon. *Jurnal Komunikasi KAREBA* Vol. 2, No.1.
- Listyanto, A. D., & Munadi, S. (2013). Pengaruh pemanfaatan internet, lingkungan dan motivasi belajar terhadap hasil belajar siswa. *Jurnal Pendidikan Vokasi*, 3(3), 293–306.
- Livingstone, S., Mascheroni, G., Staksrud, E. (2017). European research on children's internet use: Assessing the past and anticipating the future. *SAGE Journals*.
- Maisaroh, dkk. 2019. Hubungan antara pemanfaatan internet terhadap hasil belajar siswa SMAN 1 Besar. *Jurnal FKIP. Universitas Negeri Lampung.ac.id*
- Mariah, K., Neviyarni, S., & Jamna, J. (2016). Efektivitas pelaksanaan bimbingan kelompok dengan pendekatan konseling realitas dalam mengembangkan penyesuaian diri siswa di lingkungan sekolah pada siswa kelas X SMAN 1 Sungai Tarab. *Konselor*, 5(2), 72–82.
- Mawarsih, S. E., & Susilaningsih, (2013). Pengaruh perhatian orangtua dan motivasi belajar terhadap prestasi belajar siswa SMA Negeri Jumapolo. *Jupe UNS*, 1(3), 1–13.
- Mulawarman, dkk. 2019. Hubungan antara kecerdasan emosional dan prestasi belajar dengan penggunaan *social media* pada siswa SMA. *Jurnal Konseling dan Pendidikan*.
- Okyere, C.Y. (2020). The effect of internet services on child education outcomes: evidence from *poa! Internet in Kenya*. *Journal of Development Effectiveness*.
- Putra, S. A., Daharnis, D., & Syahniar, S. (2013). Efektivitas layanan bimbingan kelompok dalam meningkatkan self efficacy siswa. *Konselor*, 2(2), 1–6.
- Putri, S. D & Neviyarni. (2013). Faktor-faktor penyebab rendahnya prestasi belajar siswa. *KONSELOR | Jurnal Ilmiah Konseling*, 2, 225–230.
- Primadita. (2016). Peningkatan wawasan global siswa melalui penggunaan media *google* dalam pembelajaran IPS. *International journal pedagogy of social studies*, 1 (1).
- Ravizza, S., Uitvlugt, M., Fenn, K. (2016). Logged in and zoned out: how laptop internet use relates to classroom learning. *SAGE Journals*.
- Sergi, K., Gatewood, R., Elder, A., Xu, J., Mascheroni, G., Ólafsson, K., & Ahmadi, D. (2016). Pengaruh penggunaan gadget terhadap personal sosial. *I(2)*, 1–15. doi.org/10.31289/jppuma.v1i1.548.
- Siagian, S & Tanjung, P. (2012). Pengaruh media pembelajaran dan gaya belajar terhadap hasil belajar pada
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- SMP. *Jurnal Teknologi Pendidikan* vol. 5 no. 2. 5(2).
- Sitohang, N., Yusuf, A. M., & Daharnis, D. (2013). Pengaruh layanan bimbingan kelompok terhadap pencapaian tugas perkembangan remaja awal dalam aspek kemandirian emosional (Studi eksperimen di SMP Frater Padang). *Konselor*, 2(4).
- Sutrisno, V. L. P & Siswanto, B.T. (2016). Faktor yang mempengaruhi pembelajaran siswa SMK di kota Yogyakarta. *Jurnal Pendidikan Vokasi* 6(1).
- Yunelti, F., Marjohan., & Nurfarhanah. (2013). Penggunaan internet di kalangan Mahasiswa. *Konselor. Jurnal Ilmiah Konseling*, 2, 256–259.
- Yuni, D. (2018). Pengaruh pemanfaatan teknologi internet terhadap hasil belajar siswa kelas XI SMAN 2 Jombang . *Jurnal pendidikan* Vol. 1, No.2.