
The Effect of Using ICT Based on Learning Media to Students' Learning Motivation

**Suarman
Mahdum, Suryati**

Master of Economic Education, Universitas Riau, Pekanbaru, Indonesia
Email: suarman@lecturer.unri.ac.id

ABSTRACT

This study aims to determine the effect of using ICT based on learning media to student's learning motivation. The hypothesis of this study is: ICT based learning media is the determination of students' learning motivation which has a positive influence. This survey method with technique using purposive sampling is applied. The type of data was primary data obtained by questionnaire. The technique of data analysis is regression analysis and independent sample T-test analysis with SPSS program. The result showed that using ICT based on learning media has a positive and significant effect on student's learning motivation.

Keywords: Students' Learning Motivation, ICT Based on Learning Media

Introduction

The learning process will be influenced by several things, according to Sardiman (2011) one of them is motivation. Students who are motivated to learn will show interest in various problems, enjoy finding and solving problems, prefer to work independently, and tough to face difficulties.

The application of information and communication technology in education is one of the factors in the effort to solve three strategic issues of national education, namely the expansion and equity of access, improvement of quality and relevance, and good governance and accountability, as the current era of globalization requires the utilization of Information and Communication Technology (ICT) as the most effective and efficient means of catching up with education. So that the focus of handling the object of

education is focused on improving human resources and infrastructures, among others, is to support 9 years of Primary Education and 12 years of Secondary Education through distance learning system, to support the improvement of primary and secondary education quality through the utilization of

Information and Communication Technologies (ICT), and support the enrichment of learning through operational and utilization of ICT and E-Learning (Taufiqurokhman: 2011).

Information technology is the means and infrastructure (hardware, software) systems and methods for obtaining, transmitting, processing, interpreting, storing, organizing and using data meaningfully. While communication technology is a means and infrastructure of institutional structures and social values which are collected, stored ,

processed and exchanged information to allow for the similarity of perception and or action Bambang Warsita (2006).

Utilization of information and communication technology is expected to improve the success of teaching and learning process. Munir (2009) explained that the application of appropriate information and communication technology in the education sector is one of the important key factors to improve the quality of education and quality of human resources. Implementation and development of information and communication technology is not just following the global trend but is a strategic step in improving access and quality of education.

Vocational High School is a school that integrates the subjects of entrepreneurship education on individual subjects. Entrepreneurship education in vocational school is basically one of the learning program which aims to cultivate the value of entrepreneurship through habituation, attitude planting, and the maintenance of entrepreneurial behavior. According Suryana (2007) entrepreneurship is essentially the nature, characteristics, and character of someone who has the will to realize innovative ideas into the real world creatively. The essence of entrepreneurship is the ability to create something new and different (creative and innovative). Therefore, it is important for students to have a high motivation in the learning process of entrepreneurship education.

Joshua's (2006) research on Limits of PowerPoint's Power: Enhanced Student's Self-Afficity and attitudes but not their behavior concluded that the academic achievement of learners is not influenced by the use of powerpoint in learning activities, this is influenced by self-afficity and motivation of learners after using powerpoint.

Other research also conducted by Arie (2015) about the influence of parents' income on motivation does not get the factor that the income of parents have a big effect on student learning motivation when the learning process. In this case the researcher tried to test the difference of students' motivation based on work and the average income each month. The result of the difference test is that there is no difference in students' learning motivation.

Other studies related to the use of ICT-based learning media were conducted by Tolani-Brown, et al (2009) on the analysis of research and the impact of ICTs in education in the context of developing countries explaining the resource show that many stakeholders and decision makers in developing countries are driven by they intuition, that the modernization of the learning environment with computer and other ICT they believe it will improve the teaching and learning happens in the classroom. This study shows that many stakeholders and decision makers in developing country systems believe that the learning environment with computers and ICT will improve the teaching and learning that takes place in the classroom. Given this belief of decision makers in a country then a good follow-up is the provision of ICT-based facilities and infrastructure to support learning activities.

Based on preliminary observations at this time the subject of entrepreneurship education of Vocational High School's teachers in Kampar District has not utilized ICT-based learning media during the learning process well. Whereas the potential to utilize ICT-based learning media exists, schools have provided ICT-based learning media such as LCDs (projectors), internet networks (wifi) to access relevant teaching materials, and teachers have also personally owned laptops for designing learning materials. The learning process that is conventional by the teacher makes the

students look saturated and less interested when participating in teaching and learning activities subjects of entrepreneurship education.

Based on the background, the researcher is interested to research more about the utilization of ICT-based learning media in entrepreneurship education learning as an effort to improve students' learning motivation on the subject of entrepreneurship education of Vocational High School in Kampar regency.

Methodology

This research includes quantitative descriptive research. The object of this research is the learning media based on ICT (X), student learning motivation (Y). The population in this study is all students of Vocational High School located in Kampar Regency. Sampling technique in this research that is purposive sampling, researcher take sample research done at Vocational High School YPTN Bangkinang and Public Vocational High School of 1 Bangkinang. Methods of data analysis in this study using regression analysis and independent test sample T-Test with the help of SPSS program.

Result and Discussion

1. Effect of Using ICT-Based Learning Media to Student's Motivation

Based on data analysis and hypothesis testing which has been done in this research, hence obtained result show that there is significant and positive influence of utilization of ICT-based learning media to student's learning motivation.

This is in accordance with the opinion expressed by Rusman, et al., (2012) that one of the purposes of using learning media based on information and communication

technology is to motivate the ability of learners to be able to adapt and anticipate the development of information and communication technology, so that learners can implement and live the activities of daily life independently and more confidently. Therefore, by utilizing ICT in the learning process, students are expected to be more independent and confident in learning activities as well as in performing tasks assigned by teachers at the end of learning entrepreneurship education.

According to Oemar (2008) that one way to motivate students to learn is known by the novelty that students prefer to learn when attention is drawn by the presentation-a new presentation (novelty) or still foreign. Teachers can use a variety of varied teaching methods, a variety of tools, various tasks that may be unfamiliar to students. Sukristin (2014) also explained that through education it is expected that one is able to form a brave soul and able to face the problems of life and life naturally, the creative soul to find solutions and overcome the problem, independent soul and not depend on others. One of the entrepreneurial spirit that needs to be developed through the education of students is life skill.

So in this case the learning of entrepreneurship education should be an attraction for students to further explore the knowledge about various materials about learning entrepreneurship education, so it takes a high motivation to want to learn, want to read, want to understand more about entrepreneurship. The results of this study are in line with the research that has been done by Muhammad (2013), in his research gained the result that ICT-based learning media can be used to improve learning motivation and concept comprehension.

From various theories and research ever done things that can generate student learning motivation one of them is the utilization of instructional media that is ICT-based learning media. One of the schools that have ICT-based learning media is Public Vocational High School of 1 Bangkinang and Vocational High School YPTN Bangkinang. So it is not difficult for teachers to utilize the media in ICT-based, either when the learning process is in progress or in preparing e-learning based learning materials. Given the importance of motivation as a driver of student learning activities, so much effort to generate and motivate learning in children. Teachers have a great responsibility to motivate children to maximize their children in learning activities. Student's attention to the material given by the teacher can be realized through several ways such as methods used by teachers, media and props, repeating the material in a different way than before, and making learning variations. ICT-based learning can also be done in an effort to improve student learning motivation, in this case, especially learning of entrepreneurship education.

2. Differences Effect of ICT-Based Learning Media on Student Learning Motivation and Learning Outcomes

a. Differences in Motivation Learning Based on the Origin of School

Based on the difference test conducted dilakukapn obtained no difference in learning motivation between students who attend school at Public Vocational High School of 1 Bangkinang and Vocational High School YPTN Bangkinang. According to Howey, et al., (2001) about the factors that influence student's learning motivation, one of them is environmental factors that turned out to have a great influence on teaching and

learning process, such as learning tool, geographical location of the environment, family condition and so on. However, in this study obtained the result that there is no difference in student learning motivation from both schools representing Vocational High School in Kampar District namely Public Vocational High School of 1 Bangkinang and Vocational High School YPTN Bangkinang.

b. Differences Learning Motivation Based on Sex

From the test results of differences based on sex obtained the result that there are differences in learning motivation between male and female students. Tendency difference of motivation to study student of male and female sex that is student motivation of woman is quite strong, meanwhile student's motivation to study of male gender is also strong, the percentage was not too far difference. This means that the same learning motivation and learning motivation of male students when participating in learning entrepreneurship education. The result of this research is in line with the research that has been done by Husnul (2008) about the difference of motivation to learn mathematics based on gender in high school students that in the mathematics lesson of male students with female students of same learning motivation.

Conclusion

This research can be concluded that:

1. There is a significant and positive influence between the use of ICT-based learning media on student learning motivation on the subject of entrepreneurship education Vocational

High School in Kampar Regency. Learning media by utilizing ICT in this case powerpoint used to convey learning materials of entrepreneurship education can improve students' learning motivation. By utilizing ICT-based learning media teachers will make students more motivated to learn.

2. Differences in the influence of ICT-based learning media on student learning motivation on the subject of entrepreneurship education Vocational High School in Kampar Regency seen as follows:
 - a. There is no difference in learning motivation between students of Public Vocational High School of 1 Bangkinang and Vocational High School YPTN Bangkinang.
 - b. There is a difference in learning motivation between male and female students. Students of male sex tend to have higher learning motivation than female students.

Recommendations

From the results of this study is expected:

1. To improve students' learning motivation, teachers play an important role in learning activities, ICT-based learning media can be an option for teachers in carrying out learning activities, but it is also expected for the school and government to support, develop and maintain human resources, and give facilities and infrastructure that already exist, so that in the utilization of ICT-based learning media more effective.
2. For further research besides the utilization of ICT-based learning media and motivation to learn there are many other

variables that can be studied influence on student learning outcomes.

References

- Arie Bagus Yudianto, 2015, Hubungan Penghasilan Orang Tua Terhadap Motivasi dan Hasil Belajar Siswa Dalam Pembelajaran Pendidikan Jasmani, Olahraga dan Kesehatan, *Jurnal Pendidikan Olahraga*.
- Bambang Warsita, 2006, Kecenderungan Global dan Regional dalam Pemanfaatan Teknologi Informasi dan Komunikasi untuk Pendidikan, *Jurnal Teknodik (Nomor 19 tahun 10)*. Hlm. 69-98.
- Howey, K.R., et al, 2001, Contextual Teaching and Learning Preparing Teacher to Enhance Student Success in The Work Place and Beyond, *Washington: Eric Clearinghouse on Teaching and Teacher Education*.
- Joshua E. Susskind, 2006, Limits of PowerPoint's Power: Enhancing Students' Self-Efficacy And Attitudes But Not Their Behavior. *Computers & Education*, 1-12.
- Muhammad Fahrin, 2013, Pengaruh Media Pembelajaran Berbasis TIK Terhadap Motivasi Belajar dan Pemahaman Konsep, *Tesis. Universitas Pendidikan Indonesia. Bandung*.
- Munir, 2009, Pembelajaran Jarak Jauh Berbasis Teknologi Informasi dan Komunikasi. *Bandung: Alfabeta*.
- Oemar Hamalik, 2008, Kurikulum dan Pembelajaran. *Bumi Aksara. Jakarta*.

-
- Rusman, *et al.*, 2012, Pembelajaran Berbasis Teknologi Informasi dan Komunikasi. *Grafindo Persada. Jakarta.*
- Sardiman, 2011, Interaksi dan Motivasi Belajar Mengajar. *Raja Grafindo Persada. Jakarta.*
- Sukristin Mastiah, 2014, The Application of Community-Based Economic Model in Entrepreneurial Activities, *Jurnal Ekonomi Pembangunan. (Diakses tanggal 20 Oktober 2016).*
- Suryana, 2007, Kewirausahaan, Pedoman Pedoman Praktis, Kiat dan Proses Menuju Sukses, *PT.Salemba Empat. Jakarta.*
- Taufiqurokhman, 2011, Kebijakan dan Pemanfaatan Teknologi Informasi & Komunikasi dalam Dunia Pendidikan. (*www.ict-prisma.com, diakses tanggal 13 Oktober 2016).*
- Tolani-Brown, N. McCormac, M. Zimmermann, R, 2009, "An Analysis of the Research and Impact of ICT in Education in Developing Country Contexts". *Journal of Education for International Development*.4, (2), 1-12.