

# Impact of the Use of Dikti Edu Tablets on Students' Achievement in Computer Assisted Language Learning Class

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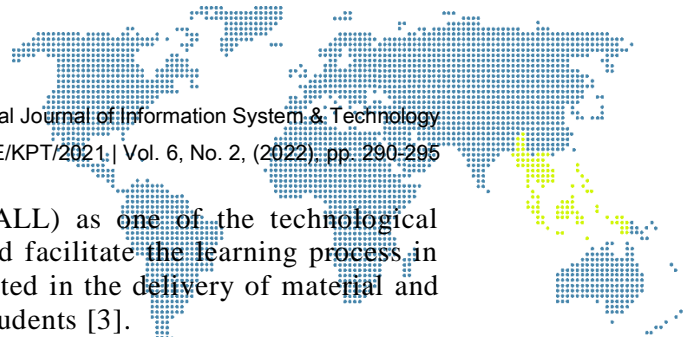
## Abstract

The purpose of this research to determine the impact of using the Dikti Edu Tablet on student achievement in the Computer Assisted Language Learning Class. Through this research, of course, researchers can find out the relationship between the independent variable, namely the use of Dikti Edu tablets and the dependent variable, namely achievement. Research method is quantitative research model using a survey in the form of distributing questionnaires to 20 students of English Education Program. After collecting data, the data were analyzed quantitatively through SPSS 22 and the statements in the study used a Likert scale of 1-4. Based on the research that has been done, it is found that there is an increase in the learning achievement of English Education students at Victory Sorong University. This is evidenced by the value of the relationship between Edu Dikti Tablets and Student Achievement in English Language Education is 56%, while achievement is 44% which may be influenced by other factors not examined in this study. With the Edu Dikti Tablet, students are able to learn independently, creatively and innovatively so that they become educators who are ready to compete in the community.

**Keywords:** Edu Dikti Table, Student Achievement, CALL

## 1. Introduction

The Covid-19 pandemic that occurred and hit Indonesia, caused various kinds of problems to arise and occur. One area of life that is so affected is the education sector. Many schools have been forced to stop their learning process to limit distance and prevent the spread of the corona virus. This complicated problem has also become a serious problem faced by universities in eastern Indonesia, including Universitas Victory Sorong. However, with the help of the government, namely the Dikti Edu Tablet, Victory Sorong is still able to carry out distance learning with the help of the internet. The progress and development of information technology in the era of globalization is growing rapidly, one of which is the internet [1]. Through the recovery of the Covid-19 situation which is getting better day by day, Victory Sorong as the recipient of the Dikti Edu Tablet assistance needs to create a new strategy that is useful so that the Dikti Edu tablet can be used to support the teaching and learning process. Studying Computer Assisted Language Learning (CALL) in the English Education Study Program is one of the courses that utilizes the use of the Dikti Edu tablet. The learning process that previously had to use a desktop computer was directly replaced by the use of the Dikti Edu tablet. Computer Assisted Language Learning (CALL) is an English language teaching approach using computer software to deliver all or part of English content



[2]. Computer Assisted Language Learning (CALL) as one of the technological products that can greatly assist teaching staff and facilitate the learning process in ideas in language teaching. So it is highly expected in the delivery of material and targets because it can be fun and not boring for students [3].

CALL is a learning method used by students of the English Education study program which serves to help students as prospective teachers in improving the quality of the learning process, such as using multimedia, aids in presentations and demonstrations in learning. The use of computer-based multimedia has the potential to create effective language learning, because of its usefulness to combine various media such as audio and video with high quality and can be arranged by the learner himself. According to Tomlinson (2001) in (Caromawati & Dwinaya, 2018) [4] mentions teaching materials in teaching English as anything that is used to help language learning which can be in the form of language, visual, audio or kinesthetic, and can be presented in printed form, through live viewing, cassette, CD-ROM, DVD, or internet. Thus, in CALL, especially the teaching materials used are the use of computer technology. These teaching materials can be in the form of software, learning packages, websites, online classes or learning environments that are often applied but are included in the umbrella of CALL teaching materials as well.

The use of computer-based Dikti Edu tablets in language learning makes English Education study program students more creative in presenting material through the media of text, images, films, sound, and graphics, it also has hypermedia facilities. Dikti Edu tablets can also be used outside the classroom and taken anywhere for taking pictures, reporting, audio and so on. This research is a quantitative study, by conducting a survey of 20 students of the English education study program studying the CALL course to find out whether there is a positive and significant relationship between the use of the Dikti Edu tablet on the achievement or learning outcomes of students in the CALL class of the English Education study program Universitas Victory Sorong. Through this study, it can be seen the direction of the relationship between the independent variables, namely the use of Dikti Edu tablets with the dependent variable, namely achievement, whether it has a positive or negative relationship and to predict the value of the dependent variable if the value of the independent variable increases or decreases.

## 2. Research Methodology

This research was carried out through four steps as it is shown in figure 1. The first step is the data is carried out to obtain the information needed in order to achieve the research objectives. The population of this research is 4th semester students who take CALL courses. The population of this study is also the sample used in this quantitative study. There are two types of data obtained by researchers in this study, namely data obtained from research subjects and data in learning outcomes. In this case the researchers tried to collect data sourced from:

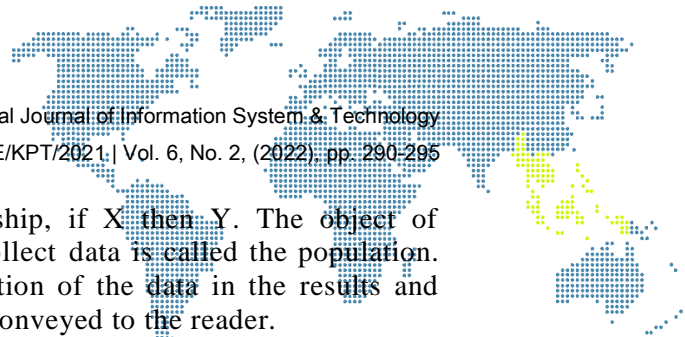
### 1. The Primary Data Source

Primary data is the first data source at the research location or research object. Respondents in this study were students of the CALL class of the English Education Study Program.

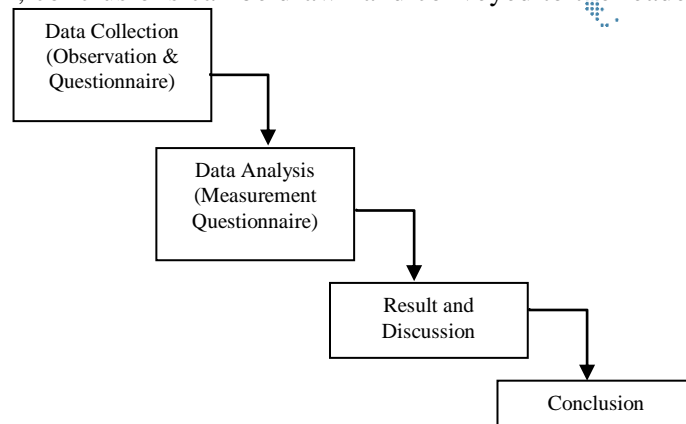
### 2. The Secondary Data Sources

Secondary data are secondary sources or secondary sources of required data such as required journals and articles.

Data analysis was carried out to determine or obtain overall conclusions derived from research data that had been collected by researchers. Based on the problems discussed, the researcher uses a quantitative research approach. The analysis used by researchers to determine the effect of each variable using a simple linear regression analysis technique. This type of research is a cause and effect research.



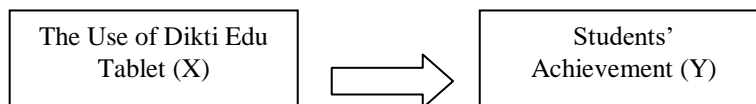
Cause and effect research is a causal relationship, if X then Y. The object of research that is used as a target to obtain and collect data is called the population. The next step is the presentation and interpretation of the data in the results and discussion. Then, conclusions can be drawn and conveyed to the reader.



**Figure 1. Research Method**

### 3. Result and Discussion

#### 3.1. Result

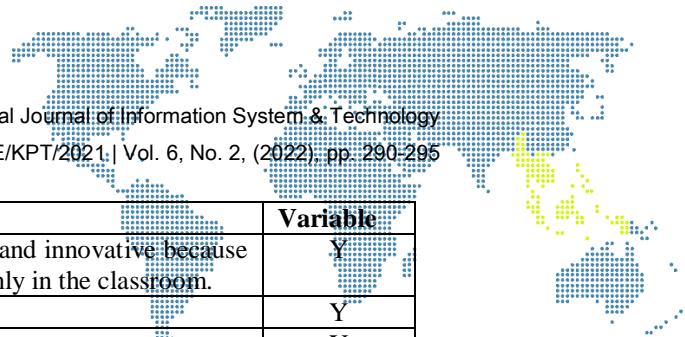


**Figure 2. Hypothesis**

Figure 2 explains how the provisional assumption of this research is that there is a possible relationship between the use of Dikti Edu Tablets and student achievement. In this study, 10 questions were used for each variable with the following details:

**Table 1. The Questionnaire**

No.	Statement	Variable
1	The Dikti Edu tablet used helps me understand the subject matter.	X
2	I use the Dikti Edu Tablet to add subject learning materials.	X
3	The search results on the Edu Dikti Tablet are relevant to the needs of learning resources for subjects.	X
4	I use the Dikti Edu Tablet as a communication medium for online discussion forums between students.	X
5	I can easily make assignments given by the lecturer.	X
6	I can easily access the internet through the Dikti Edu Tablet.	X
7	CALL class becomes very fun and refreshing at every meeting.	X
8	My friends and I can easily create assignments in groups.	X
9	I find it easier to make assignments with the applications contained in Dikti Edu.	X
10	I find it easier to discuss with lecturers outside class hours using Dikti Edu to show learning progress.	X
11	I have become more frequent in making assignments since using Dikti Edu.	X
12	I became more active collecting assignments.	Y
13	I become more satisfied with my study results.	Y
14	I always do my own assignments given by the lecturer.	Y
15	I have become accustomed to creating digital content using Dikti Edu, especially for CALL courses.	Y
16	I became very diligent in collecting assignments.	Y
17	The grades I get in class are very good	Y



No.	Statement	Variable
18	The assignments that I make are more creative and innovative because the applications in Dikti Edu can be used not only in the classroom.	Y
19	I often get compliments for my studies.	Y
20	I never cheat on my friend's work.	Y

The questionnaire was given directly to the respondents, then quantitatively analyzed through SPSS 22. SPSS is used in various market research, quality control and improvement (quality improvement), as well as scientific research [5]. The popularity of SPSS is used as a tool for data processing [6]. The statement used in this study used a likert scale of 1-4. The statistical analysis used is ANOVA (Variance analysis).

### 3.2. Linear Regression Analysis

The type of data in this study is quantitative data, namely data expressed in the form of numbers [7]. Simple linear regression model is a statistical method to identify the effect of one independent variable (X) on 1 dependent variable (Y) [8].

#### a. Coefficient Determination

**Table 2.** Correlation and Determination Coefficients

Independent Variable (X)	Dependent Variable (Y)	R	R Square	Adjusted R Square
Use of Dikti Edu Tablet	Achievement	0.749	0.560	0.536

The correlation value is 0.749. This value can be interpreted that the relationship between the two research variables is in the strong category. Through this table also obtained the value of R Square or the coefficient of determination which shows how good the regression model is formed by the interaction of the independent variables and the specified variables. The value of the coefficient of determination obtained is 56% which can know that the independent variable X has an influence of 56% on the Y variable and the other 44% is influenced by other factors outside the X variable.

#### b. Hypothesis I (F Test)

**Table 3.** The F/ Simultaneous Test

Model	Sum of Squares	df	Mean Square	F	Sig.
1 Regression	59,718	1	59,718	22.953	0.000 <sup>b</sup>
Residual	46,832	18	2,602		
Total	106,550	19			

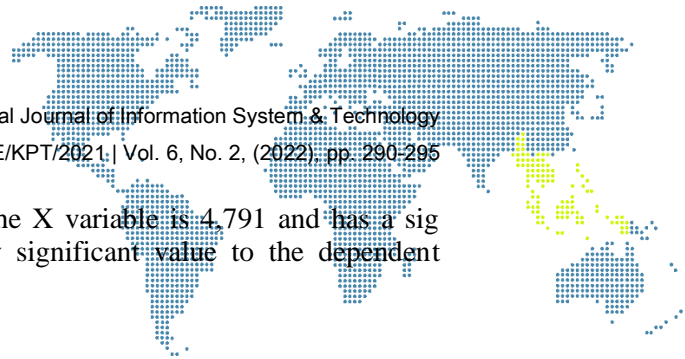
Based on table three, obtained the value of Sig. = 0.000 which means that it is greater, namely 100% significant criteria (0.05), thus the regression equation model based on research data is significant, meaning that the linear regression model meets the linearity criteria. Hypothesis testing is carried out with the F-test, namely by comparing the calculated F, which is equal to Ftable. From the results of the calculation of the data obtained the value of F arithmetic > F table.

#### c. Hypothesis II (T Test)

**Table 4.** The t / Partial Test

Independent Variable (X)	t	Sig.
Use of Dikti Edu Tablet	4,791	0.000





Based on table 4 above, it can be concluded that the X variable is 4,791 and has a sig value of 0.000. It means this research has a very significant value to the dependent variable Y.

### 3.3. Discussion

Based on the results of this study, namely through the coefficient of determination test, F test and t test, it can be seen that there is a positive relationship between x and y or it can be said that the independent variable, namely Dikti Edu tablets, has a positive impact on increasing the dependent variable, namely student achievement in the English Education study program. Through this audit, it can be used as a basis for lecturers in the English Education study program to further improve technology-based learning so that in the future it can be used as a guide for students to welcome technology 5.0.

### 4. Conclusion

Improving the quality of education is a must that all parties involved continue to strive for. The Dikti Edu Tablet assistance from the central government to Universitas Victory Sorong is an encouragement so that Universitas Victory Sorong is able to advance its services to students, especially related to learning creations and innovations. Based on the results of this study, it can be concluded that the Higher Education Edu Tablet technology is able to improve the learning achievement of English Education students at Victory University, Sorong. The value of the relationship between Dikti Edu Tablet and student achievement in English Education is 56%, while 44% achievement may be influenced by other factors not examined in this study. Through Dikti Edu Tablet technology, students are able to learn independently, creatively and innovatively so that in the future they will become teachers who are able to compete in the community.

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