



INFLUENCE OF USING THE ZOOM MEETING AND WHATSAPP IN LEARNING PROCESS ON STUDENT ACHIEVEMENT

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ABSTRACT

The purpose of this study is to discover and analyze the effectiveness of Zoom meetings. The researcher utilized a quantitative method. The population of this research is all the nursing students in semester IV in Instituto Superior Cristal. The samples of this research are 50 students. The researcher used the instrument Likert scale agrees and most agree with a total of 88.7 percent, but do not agree with a total of 2.3 percent, and Neutral with a total of 6.8 percent. WhatsApp Likert scale agrees and agrees more with a total of 92.2 percent, not agreeing with 2.3 percent, and Neutral with 4.5 percent. The installment of students on the Likert scale agrees and agrees more with a total of 95.5 percent, does not agree with a total of 2.3 percent, and neutral with a total of 2.3 percent. $F\text{-count} > F\text{-table}$ ($17,174 > 2.83$), then H_0 rejected and receives H_1 , which means that there are significant differences in the result of the installment of students by the learning process with online classes using the Zoom Meeting media and WhatsApp media.

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INTRODUCTION

Timor-Leste restored its independence on 20 May 2002 and is continuing to develop here and here in the education sector to achieve its dreams of developing education technology, but there is still a critical lack of resources to manage better education for its citizens in Timor-Leste. In 2019 the world suffered from the COVID-19 pandemic, all activities were halted and Timor-Leste was part of the suffering (Pinto et al., 2020). The government of Timor-Leste, from 2019 to 2021, has already stopped the studies of many Timorese in terms of basic education, secondary and tertiary education lost access opportunities (Subramanian, 2017). There are alternatives to the dissemination of government education problems through the Ministry of Education to take responsibility for this issue in a (1) home through radio and television. (2) Through media technology such as Zoom Meeting, Whatsapp, google classroom, and others (Astuti, 2021).

Media technology is a way to fulfill the process of education in public and private Higher Education (Brito & Edukasaun, 2021). The Instituto Superior Cristal is part of private institution education. This institution utilized Zoom Meetings and Whatsapp for conducting the distancing process during Pandemic Covid-19. The challenges are a lack of human resources for using this learning technology.

The problems that arise from the previously identified by researchers are (1). The lack of knowledge on the use of Zoom Meeting and Whatsapp in the learning process for student delivery, (2) Electricity continues to die frequently, (3) The internet network is less psychiatric, (4) In remote areas, there is no internet network, (5) Students in many remote areas do not have telephone facilities, laptops, and computers, (6) Many teachers, teachers, and colleagues also don't know how to use the Zoom Meeting and Whatsapp in the learning process (7) There is 40 to 50 minibus limitation when Zoom Meeting is free in the learning process, (8) The capacity to send documents should not exceed 100MB through WhatsApp media (Da Costa et al., 2017).

Student study achievement becomes one of the direct objects of a learning process. Each student is motivated to obtain the optimal result of the study. Academic achievement has been obtained in each learning process. Those students are motivated to grasp optimal academic achievement. Obtaining the best academic achievement becomes the target of the students. It is because academic achievement became an indicator of the understanding level of students on learning material (Carvalho Do Carmo et al., 2020; Da

Costa, 2018; Da Costa et al., 2017; Bobga, 2016).

METHOD

Method of quantitative research in descriptive format. The descriptive quantitative research aimed to give explanations about a condition or even the variables caused by the population that was the subject of research based on exposed phenomena after the obtained data had used the purpose of using the application of SPSS (Purmono 2016, p. 24) that SPSS is a data processing program package, then to run the program it is necessary to prepare the data that will be processed and analyzed. Result analyzes descriptive frequency in Item valid of Variable: Zoom Meeting (X1), Whatsapp (X2) and installment of Student (Y) are as follows (X1) r-accounts X1-1 to X1-9 > r-table 0.3843, (X2) r-accounts from X2-1 to X2-8 > r-table 0.2973 and (Y) r-accounts from Y1 to Y10 > r-table 0.2973.

Quantitative study with its description form. The quantitative research found research had the objective of explaining a condition or possibility because there are variables that arise in the population that may arise based on a phenomenon that happens after the data is collected using the application of the SPSS (Da Costa, 2018). The SPSS is a program to process data and prepare the data that will be processed and analyzed. at the time of data and character referred to at times of development. However, this is not the result of previous research, which is not the result of the results mentioned above, which can be seen from the dynamics of the development of a phenomenon from time to time).

RESULTS AND DISCUSSION

Results

The total population in the research was drawn from 50 general targets, the Department of Private Health, Cristal Semester IV 2021. The total sample in this research was 44, 36 men, 8.

Nu.	Question (affirmation)	Choosing the answer					N = Total	s c o r e s	M e d i u m	m a x	Categories
		1	2	3	4	5					
	ZOOM MEETING (X ₁)	N M A	N A	N	A	M A					
1	A Zoom Meeting can be installed on laptops	2	0	3	1 7	2 2	4 4	1 8	4 ,	8 5	Better

								9	3	,	
2	The application program Zoom Meeting can be downloaded from the telephone	1	1	3	16	23	44	191	43	830	Better
3	The Zoom Media Meeting allows one to one hundred participants	1	0	3	13	27	44	197	45	729	Better to
4	In online learning using Zoom Meeting participants were unable to record	1	0	3	15	25	44	195	44	780	Better to
5	Metode E-learning Zoom Meeting synchronize that teachers and students in virtual classes are the same as the time and place	1	0	3	13	27	44	197	45	729	Better to
6	We conduct learning activities with Zoom Meetings we need an internet network	1	0	3	19	21	44	191	43	909	Better to
7	Internet is important when we conduct the process of Zoom virtual or video content	1	1	3	14	25	44	193	44	772	Better to
8	How electricity is lit while we are in the learning process with Zoom Meeting	1	1	3	12	27	44	195	44	722	good
9	Zoom Meetings can be excellent because there are fire, internet networks, and laptops	1	0	3	14	26	44	196	45	753	Better to
									39		Better to
	WHATSAPP (X ₂)	NMA	NA	N	A	MA	N = Total				
1	Whatsapp can be installed on mobile phones laptops and PC	1	0	2	12	29	44	200	45	689	good
2	Whatsapp groups and individuals can be used for voice calls and video call	0	0	2	12	30	44	204	46	680	good
3	Whatsapp is open to the public as Facebook	0	1	2	9	32	44	204	46	637	good

4	Whatsapp can share information, send documents and messages	0	1	2	11	30	44	202	46	673	good
5	Whatsapp is not limited compared to Zoom Meeting	0	0	2	15	27	44	201	46	744	good
6	Whatsapp is better than any other media	0	1	2	11	30	44	202	46	670	good
7	The cartography is working well because there is a reliable electricity	0	0	2	13	29	44	203	46	700	Better to
8	Whatsapp can also be used for district business because of the internet connection	0	0	2	12	30	44	204	46	680	good
									367		Better to
STUDENT DELIVERY (Y)		NMA	NA	N	A	MA	N = Total				
1	Zoom Meeting and Whatsapp make it easier for online learning	0	0	0	9	35	44	211	47	602	good
2	Materials communicated through Zoom Meetings and Whatsapp were easily understood by	1	0	0	10	33	44	206	47	624	good
3	The ability to absorb the explanation and information above Zoom Meeting and Whatsapp quickly.	0	0	0	10	34	44	210	47	617	good
4	Knowledge through online learning is that the material and information can be accessed easily via Whatsapp	0	0	0	11	33	44	209	47	633	good
5	The ability to analyze and resolve problems increases online learning or e-learning	0	0	0	9	35	44	211	47	602	good
6	The capacity to manage time and place for online learning has increased	0	0	0	8	36	44	212	47	588	sufficient

7	There has been a change in the last value after determining post-learning	0	1	1	1 1	3 1	4 4	2 0 4	4 , 6	6 5 , 8	good
8	Students would like to make a statement through Zoom Meeting and submit TPC or report through Whatsapp	0	0	0	6	3 8	4 4	2 1 4	4 , 8	5 6 , 3	sufficient
9	Teachers are easy to teach and explain information through Zoom Meetings and Whatsapp	0	0	0	1 1	3 3	4 4	2 0 9	4 , 7	6 3 , 3	Good
10	Students easily discussed Zoom Meetings and Whatsapp difficulties during one learning	0	0		9	3 5	4 4	2 1 1	4 , 7	6 0 , 2	Good
									4 7 , 0		Better

In total, the research was attended by students from the Department of Nursing semester IV of the Faculty of Private Health, Cristal, with 44 people distributed according to gender: 36 female respondents had 8 male respondents. This research resulted in a lack of gender balance between men and women, meaning that female respondents are very dominant in the research compared to men respondents shown.

Zoom Meeting (X₁)

It is not agreed that the results of a detailed analysis of the three types of analysis in student 2 selected question item 1 (one) "Application of Zoom Meeting can be installed on a laptop", that these students do not agree more with item 1 with their 2 (one) and 2 percent respectively do not agree with their choices in the laptop ", meaning that the students do not understand the question of this paper in comparison with another item 2 and the questions.

Based on the results of a brief analysis of students 3 selected questions 2 the program's application of Zoom Meeting can be downloaded from a play-based phone, 7 Internet is important when we conduct the learning process of Zoom virtual or videoconference, 8 How long electricity is killed while we are in the learning process with Zoom Meeting 2, 3 that students do not agree with questions 2, 7, 8 minorities compared to the questions. Because they were less aware of the question items

mentioned in the research laboratory.

Neutral three students selected question items 1-9 with a maximum estimate of 6,8 lower than other questions. Because they were neutral in understanding items 1-9 with questions mentioned in the research. That they do not understand any of the fee items in the quest with the conclusion that while online classrooms are not appropriately appropriately appropriately exploited, they can say that they are used or not used for them all the same.

Agree: Based on the results of a brief analysis 12 students selected 8 questions (eight) "How electricity is lit, while we are conducting a learning process with Zoom Meeting good" with 27.3 that the majority of students agreed on "eight questions due to knowledge.

More Agree: Based on the results of a brief analysis 21 students selected 6 questions. "We have carried out learning activities with Zoom Meeting to need an internet network" with 47,7 that the majority of students agree more because they felt and took advantage of the material through Zoom Meeting. The Zoom media Meeting allows a person to be equal and up to one hundred participants, 5 hundred.

Metode E-learning Zoom Meeting asynchronous that teachers and students in virtual classes are the same but some time and space are different 8. How electricity is burning, while we are in the process of learning with Zoom Meeting the majority of students agree with 61,4. Most students agreed more with questions mentioned in the research scenario that there is a better understanding of Zoom Meeting, methods, and if electricity is light at the time of the online class (Fry et al., 2021).

Whatsapp (X₂)

Fairly Agree, there is 1 student choice of one item. Whatsapp can be installed on the mobile, laptop, and the PC, and the students were not strongly objected " with a personal item 1 with their 2,3 percentages selected for students 1 show that the student does not yet understand the question in the research, compared to other questions,

Disagree, here are 3 students who selected 3 questions. Whatsapp is more open to the public, like Facebook media, and students minority parties did not agree" with the questions discussed Because students in the learning process don't understand the best use the WhatsApp.

Neutral, there are each student 2 selected questions 1-8 with a minority club

in comparison with other questions. They were neutral in understanding 1-8 or sixty questions raised in the research phenomenon showing that they did not understand the percents item in the app with the conclusion that during the online class they were not appropriately exploited.

Agree, 9 students have agreed to select 3 questions. WhatsApp is open to the public as Facebook with a 20 percent chance that students refer to "minority agreed". And over 15 students selected 5 questions, with a majority of 34,1. They agreed with questions raised in the research laboratory that Whatsapp was more open to the public such as Facebook media limiting the group to send a name, paper, voice call, video call, etc.

More Agree, there are 15 students selected 5 questions, with a majority of 34,1. They agreed with questions raised in the research laboratory that Whatsapp was more open to the public as Facebook media limits the group to send a name, paper, voice, video call, etc. Of most students 32 were selected for question items, 3 Whatsapp was too open to the public as Facebook with a total of 72.7. They strongly agreed with questions mentioned in the research laboratory that there was a better use of the media for them.

Based on the results of a brief analysis, 27 students agree on the choice of question item 5. "Whatsapp is not limited compared to Zoom Meeting" with 61.4 students referring to "a minority agree" and students 32 were selected for question items, 3 Whatsapp was too open to the public as a Facebook with a total of 72.7. They strongly agreed with questions mentioned in the research laboratory that there was a better use of the media for them.

The conclusion is that the independent variable Whatsapp scale Likert agreed and agreed on over 42 students who were influenced by their studies in the Department of Legal Training (EIS) regular, IV, with a total of 92,2. Independent Variable Whatsapp on the scale of the Likert does not agree with these 2,3 children less than one (one) student are not influenced by the independent variable WhatsApp's performance in the regular nursing Department IV with a total of 2.63 cents. The materialization that the independent variable Whatsapp scale Likert Neutru minorities 2 were represented by question 1-8 students in al4.5 who are not influenced by their education achievement at the core of a regular Nurse IV with a total estimate of 4,5.

Students Achievement (Y)

Fairly agree, there is 1 student choice of question item 1 Zoom Meeting and Whatsapp make it easier at online learning. The student did not agree more with item 1 and his teaching 3 show that the students did not understand the question in the research in comparison with other questions. Analysis of respondents as described in table Y2 and a smaller number (Atmoko et al., 2022).

Disagree there is 3 students' choice of question items. Zoom Meeting and Based on the results of the analysis of the number of small-selected students 1 was selected. There was a change in the last value after determining post-learning and learning 2,3 that the student said a minority did not agree" with the question. Questions and Findings because the students said that the students did not understand the materials given by the lecturer (Brame, 2019).

Neutral, one student selected 7 questions with a minority of 2.3 points lower than the other questions. The students were neutral in understanding the question mentioned in the research phenomenon, that he did not understand the item of culpability in the classroom with the conclusion that during the online class he did not use the material evidence, so the students (Ibrahim & Ishartiwi, 2017).

Agree, based on the results of a brief analysis, 6 students have agreed to select 8 questions. "The students were easily able to make a statement through Zoom Meeting and submit homework or report via Whatsapp" with 13,6 the students said "A minority agreed but they understood it well and took advantage of the material given by the teachers 11 students did not agree to select items 4. Item 4 about knowledge obtained through online learning materials and information can be accessed easily. Whatsapp" 7 "There is a change in the last value after determining e-learning "9" lecturers' chosen to teach and explain more information through Zoom Meeting and Whatsapp" with a majority of students as per table 4.2 and results because they agreed with questions mentioned in the research phenomenon that increases knowledge. Knowledge regarding the process of the value of Zoom Meeting and the app be better used by the lecturers online (Ocean Nexus Center, 2020).

More Agree 31 students agree on the choice of question item 7. There has been a change in the last value after determining learning at 70.5 of students 44 that students said: "A minority agreed that the question was better influenced by the teachers when they were online. Based on the results of a brief analysis ", 38 students agree on the choice of question items 8 of 44 students" Getting students easier to present information through

Zoom Meeting and submit homework or report by Whatsapp with 86.4 that students "minority agree more especially to the question but this question will influence them when they run online with their teachers.

This showed that 42 students have a better influence on their education in the faculty of Health, Cristal is 95.5. In conclusion, a highly dependent variation of students' student achievement disagreed with a total of 2.63 students that none of them influenced their education because they did not understand well during receiving teaching materials or media from Zoom Meeting and Whatsapp for their service in the department of Nurse IV with a total of 2.3 days. In conclusion, the highly dependent variation in student achievement was 2: 3 that one is not influenced by the achievement of study because he did not have the motivation to receive the materials received by the teachers using Zoom Meeting and Whatsapp in the Department of Nurse semester IV for 2.3 days.

Discussions

Based on the results of the analysis contained in the table, the correlation between Zoom Meeting (X1) for student achievement showed that there is a significant degree of cooperation between the two decks, and then we carried out a partial test of the Zoom Meeting for student achievement hypothesis zero (H0): Not significant influence between the Zoom Meeting and student achievement. Alternative hypothesis (H1): 3.8800 means There is a significant relation between Zoom Meetings and student achievement.

The significant correlation witness with criteria: If the amount is valued $< 0,05$, it denies H0 and accepts the H1 that there is a significant relationship between the Zoom Meeting for the student if the amount is proportional. > 0.75 , it is accepted and rejected H1 that there is no significant relationship between the Zoom Meeting for the student delivery in the Variable X1, X2, and Y (OCED, 2017).

The result shows that a significant amount of $< 0,05$ or $0,05$ is rejected H0 and received H1, meaning there is a significant relationship between Zoom Meeting for student delivery, that the use of Zoom Meeting in the learning process has impacted the achievement of regular students by the Nursing Department of Cristal.

If the valuation is proportional. $F_{change} < 0,05$, thus refusing to accept and accept H1 that there is a significant relationship. If the valuation is proportional. $F_{change} > 0.705$, so that H0 and rejected H1 that there is no significant relationship. The output showed that the amount of $(00,00) < 0,05$, which means that all items are valid another way to identify the validity of the question items is the comparison between the value of

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the hierarchy (from the correlation of each item with the full agent), with the following criteria: If the valuables > can mean the item is valid, and if the value of the hierarchy < rtable means the item is not valid. (alpha) 945; = 0,05 (5%) with the degree of freedom (df = n-2) (Muhamad et al., 2019).

Identifying the validity of the question of the Student Delivery question, there is a significant value of the correlation between each item and total scant, with the following criteria: If the significant amount < 0,05 (5%) means the item is valid, but if the significant amount > (5%) means the item is invalid 0,0 output result indicated that items with significant values (000, 001, 004, 000, 001, 001) < 0,05. All the items are valid. Another way to identify the validity of the question items is to make comparisons between the hierarchy (from the correlation of each item with the full agent), with the following criteria: If the valuables > can mean the item is valid, and if the value of the hierarchy < means the item is not valid. Here: conspiracy to 945m; = 0,05 (5%) with the degree of freedom (df = n-2).

The result is that the Cronbach score is Alpha, 0,929. To read the decision about a reliable variable or not on the following If the coach's alpha>0,6 means reliable criteria and if the Cronbach's alpha < 0,6 means unreasonable. Thus, Cronbach >0.76 or 0,929 > 0,6 is the type of Zoom Meeting (reliable).Table 4.34 Reliable Whatsapp (X2). The result is that the Cronbach score is Alpha 0,755. To read the decision about a reliable variable or not on the following criteria: If Croanbachs alpha>0,6 means (reliable), and if Croanbach's Alpha<0,6 means unreasonable. The Cronbach's alpha > 0,755 > 0,6 means Whatsapp (reliable) varieties. Meeting (X1) influence the dependency of student delivery (Y) in the learning process during an online balance in the health service and attendance.

CONCLUSIONS

The finding was that the independent structure of Zoom Meeting agreed on a total of 40 student students who were most influential in their studies in the Department of Legal Training (PTC) regularly, with a total of 88 percent.

The finding was that the independent variable Zoom meeting of agreed or agreed more than 40 students who were most influential in delivering their studies in the regular nursing department with a total of 88,7. The independent Variable Meeting Zoom likert did not agree with a minority of 3 students aged 2.63 who were not influenced by their performance in the regular nursing department of semester IV. And an independent variable meeting Zoom High for 3 students was represented by questions 1-9 with 6,8

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missing students who did not influence their education in the regular nursing department of semester IV.

In conclusion, on the independent variable Whatsapp scale, Likert agreed and agreed with more than 42 students who were influenced by their studies in the Department of Nursing In total 92.2 percent of the independent variability Whatsapp on the scale would not agree with 2 percent lower than 1 student that the students were not influenced by an independent variable Whatsapp for their studies in the regular nursing department, and Neutral (2), representing the question 1-8 of a few students who did not influence their daily achievement in the nursing department.

The conclusion, the dependence on the achievement of small-scale students was agreed and agreed more have a total of 42 students better influenced their education in the Department of Private Health, semester IV, with a total of 95.5, the dependent variable of the achievement of small-scale students did not agree with a total of 2.3 students that one had a better influence on their study delivery in the Department of Private Health, because she didn't understand the materials received from teachers or the media meeting and Whats for their use in the nurses' programmatic regular and under the dependency of Neutral. 3 This information shows that their students did not understand the regular learning workshop because they did not understand the information in their report.

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