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Implementation of Student Learning (4C) During The Covid-19 Pandemic

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ABSTRACT

Learning by providing 4C skills (Critical Thinking, Communication, Collaborative, and Creativity) is one of the responsibilities of -century education, namely creating a quality workforce to be able to compete in the century. This study aims to analyze and find out how much influence Religious of Islam online learning and the role of parents in learning. The population in this study was 656 students of class XI and XII of SMAN 14 Tangerang City for the Academic Year 2021/2022. Sampling was carried out using the Simple Random Sampling technique with a sample size of 268 students. Data collection techniques using questionnaires and data analysis using descriptive statistical analysis and multiple linear analysis with the help of IMB SPSS Version 25.0. The results of the research and discussion are (1) partially online learning has a positive and significant effect on learning as indicated by the count 6.966 > table 1.969311 or p-value 0.000 <0.05. (2) partially the role of parents has a positive and significant effect on learning as indicated by the count 2.726 > table 1.969311 or p-value 0.007 <0.05. (3) Simultaneously, online learning and the role of parental learning have a positive and significant effect, as indicated by a p-value of 0.000 <0.05.

Keywords: Student, Learning 4C, Covid-9 Pandemic

A. INTRODUCTION

Education in the 21st century has responsibilities that are not easy, one of which is to create a quality workforce to be able to compete by providing students with adequate competencies. The world of work requires humans who are ready to compete with robots so that skills that are not possessed by robots are needed. These skills are 4C (Critical Thinking, Communication, Collaborative, and Creativity). Therefore, in the 21st century, it is expected that human resources have these 4 competencies to prepare students to be able to compete in a technology-based world of work (Partono et al., 2021).

The Covid-19 pandemic in Indonesia has been going on for more than a year. Various ways have been taken so that the pandemic will end soon because it has an impact on decreasing activities in all sectors of life. The Minister of Education and Culture gave a decision through Circular Letter Number 3 of 2020 that learning activities were carried out at home online both at the school level and at the college level. (Kemendikbud RI, 2020). Based on this decision, the face-to-face learning process in class was replaced with online learning.

Sundayana, (2020) said that the online learning process in Indonesia is only 20% of the lesson plans that are set every semester because online-based learning is not something that is usually done most people. The research of Basilaia et al., (2020), explains the obstacles experienced in the online learning process such as lack of mastery of technology, the addition of internet quota fees, parents getting additional work in accompanying children to study, reduced communication between students, teachers, and parents and for teachers to make working hours unlimited because they have to communicate and coordinate by parents, other teachers and principals. In addition, there are complaints such as an unstable internet network, the lack of supporting media facilities for online learning, materials that cannot be delivered in full at every meeting, and the difficulty of controlling teaching and learning activities (Widiyono, 2020).

Even though learning is done online, students still get the implementation of learning skills that must be possessed in the 21st century (Ayun, 2021). It is very important to equip students with 4C competencies through programs at educational institutions in Indonesia, but seeing the reality there are still many educational institutions that have not been able to produce outputs that are ready to compete in the 21st century (Partono et al., 2021). Schools have not been effective so it hinders

development to improve these competencies (Henry Dinus Hutabarat, 2020). Based on the Field Implementation Practice (PPL) carried out by researchers in the online learning process, the lack of directing students to get the implementation learning 4C skills. Whereas the learning objectives in the 21st century have 4C capabilities (Critical Thinking, Communication, Collaboration, and Creativity) (Arifin, 2017). Learning is very important to improve 4C competencies, thereby improving the learning process better (Suharna & Abdullah, 2020). 4C skills can be developed through a student-centered learning process that collaborates with teams and learning related to the context of everyday life (Riskayanti, 2021).

Based on the Katadata survey, (2020) there is 3% lack of assistance from parents of 3,839 responses. Because many parents find it difficult to accompany the learning process, as a parent, they must spend more time. According to Putria et al., (2020) many parents complain about some problems during learning at home, such as too many tasks given and not maximizing technology. Responsibility as a parent strengthens—role of being the first and foremost educator for children, with readiness to learn from home it can be seen how to guide children during learning from home (Purwanto et al., 2020).

B. RESEARCH METHODS

This research was conducted at SMAN 14 Tangerang City from January to August 2021. The research method is a correlational survey method with a quantitative approach. Correlation research is used to examine the relationship between variables or more (Abdullah, 2015). Data were analyzed using multiple regression analysis.

The population in this study were all students of class XI and XII of SMAN 14 Tangerang City for the 2020/2021 academic year. With a total population of 656 students. Sampling using Simple Random Sampling technique. Calculation of the sample using the slovin formula with an error of 5% obtained 258 students as a sample.

Learning Implementation (Y)

Implementation of learning is a student activity carried out to raise or compile new information and abilities that can be developed by increasing 4C competencies (Critical Thinking, Communication, Collaboration, and Creative) so that they become provisions in the 21st century. Thus, according to Ariyanti et al., (2020), The implementation of learning that will be experienced by students can shape them to be able to communicate

well, create new things, become critical thinkers, and easily collaborate. Described as follows:

Critical Thinking

The results of research by Munawaroh & Siswono, (2020), critical thinking is a thinking process to do something, evaluate and make decisions based on their beliefs to solve a problem because critical thinking is very important to have in helping solve a problem indicators of critical thinking according to Munawaroh & Siswono, (2020). Identify a response from others, formulate the main points of the problem given, reveal information in solving problems, and can evaluate appropriate reasons for solving problems.

Communication

Communication is a language exchange process that occurs in the human world. Activities that are very often carried out by everyone, in any case, wherever and whenever, one of which is communicating, because for human life communication is very important. Therefore, in the interpersonal context, group and mass communication always involve humans (Septikasari & Frasandy, 2018).

The indicators of communication skills proposed by Soemaro in Hendriana, et al (2017) in Anderha & Maskar, (2020) include:

- a. Delivering real objects, situations, and everyday events
- b. Develop arguments and explain ideas
- c. Listen, write then discuss
- d. Reading comprehension of a written presentation

Explain and ask questions

Collaborative

According to Wasono and Hariyanto in Septikasari & Frasandy, (2018) collaborative learning can take place between students in different classes and different schools and also occurs at any time, not necessarily at school, for example, a group of students helping each other to do homework.

Creative and Innovation

Creativity is the ability to think in finding and creating new ideas or new thoughts by producing useful work in solving problems (Estheriani & Muhid, 2020)

Online Learning (X1)

Online learning is a system that is used to facilitate the distance learning process.

- a. Preparing for Online Learning is a process of analyzing, estimating, considering, and making decisions about what is needed by students who are expected to achieve goals effectively (Supriadie & Darmawan, 2012).
- b. Managing Online Learning Learning management is an effort to regulate or control the learning process according to the concepts and principles of learning to achieve goals effectively, efficiently, and productively (Erwinsyah, 2016).
- c. Evaluation or Assessment of Online Learning, The existence of an evaluation can determine the level of progress achieved by students, find out the level of effort made by students in the learning process and know the methods used by teachers in the teaching and learning process (Muhibibi Syah, 2018).

Parental Role (X2)

The role of parents is an obligation carried out by fathers and mothers to carry out their duties to guide and care for their children in terms of formal and non-formal education.

- a. Guiding parents can help children in preparing the media to be used and accompany the learning process so that the teaching and learning process is carried out at home online (Iftitah & Anawaty, 2020)
- b. Motivating Giving motivation is mandatory for parents to their children so that there is responsibility for parents (Wahidin, 2019)
- c. Facilitator Haerudin et al., (2020) as parents become children's facilitators by providing learning facilities to support the learning process such as learning places, textbooks, stationery, and providing other facilities to develop children's talents and interests.

C. RESULTS AND DISCUSSION

Research Results Prerequisite Test for Normality Test Analysis

Test is a data test conducted to determine whether the data taken is normally distributed or not. The test was carried out using the Sample Kolmogorov-Smirnov formula (Sugiyono, 2018). By looking at Asymp. Sig (2-tailed). When Asymp. Sig (2-tailed) > 0.05, then the data is normally distributed, and vice versa.

Table 1. Normality Test Results

No	Informtion	Residual
1.	Normal	258
2.	Test Statistic	0,41
3.	Sig. (2-tailed)	0,200

Source: Output SPSS v.25 Primary Data that has been processed

Based on Table 1. above, it is concluded that the Kolmogorov-Smirnov Significance Value is 0.200 > 0.05, it can be stated that the data is normally distributed.

Linearity Test

The linearity test is used to determine the linearity of the data, whether the data to be tested has a linear relationship or not. It can be seen the value of Deviation from Linearity Sig. > 0.05, then there is a significant linear relationship between the independent variable and the dependent variable or vice versa.

Table 2. Summary Results of Linearity Test

No	Variable	Sig	Informtion
1.	Nx1 with Y	0,221	Linear
2.	X2 with Y	0,567	

Source: Output SPSS v.25 Primary Data that has been processed

Based on the significance value (Sig) of the output above, can be obtained the Deviation from linearity value of the relationship between the two variables, so it can be concluded that there is a significant linear relationship between the variables.

Multiple Regression Analysis Hypothesis Test

Multiple regression analysis of the number of independent variables (X) used more than one with one dependent variable (Y) by making predictions, changes from the dependent variable (Y) if the value of the independent variable (X) is increased or decreased (Sugiyono, 2017).

Table 3. Summary of Multiple Regression Analysis Results

No	Informtion	Residual
1.	Constant	39,943
2.	Online Learning (X1)	0,372
3.	Parental Role (X2)	0,154

Source: Output SPSS v.25 Primary Data that has been processed

Based on the results of multiple regression analysis above, the constant value is positive at 39,943 which means that the independent variables of online learning and the role of parents are zero, then the implementation of learning is worth 39,943. While the value of the coefficient of online learning is positive, namely 0.372, which means that the influence of online learning on the implementation of learning has a positive value. Furthermore, the value of the parental role coefficient is positive at 0.154 which indicates that the parental role variable has a positive influence on the implementation of learning.

Determinant Coefficient (R2)

The determinant coefficient (R2) is used to check the best percentage or accuracy of the regression analysis on the effect of the independent variable (X) on the dependent variable (Y) which is indicated by the magnitude of the determinant coefficient (R2) between 0 (zero) and 1 (one).

Table 4. Summary of Coefficient of Determination Results (R2)

Model	R-Square	R-Adjusted	R-Square	Std. Error of the Estimate
1	0,535	0,286	0,280	4,80722

Source: Output SPSS v.25 Primary Data that has been processed

Based on the results of SPSS version 25.0, the coefficient of determination (R2) is 0.286. So this shows that the online learning variable (X1) and the role of parents (X2) together affect the learning implementation variable (Y) which is 28.6% while the remaining 71.4% is influenced by other factors outside the variable. in this research.

Statistical Hypothesis Partial Test

The t-test shows how far the influence of one independent variable individually on the dependent variable. If tcount < t table and sig < 0.05 then Ho is accepted but if t count > t table and sig > 0.05 then Ho is rejected. So that there is an influence between the X variable, there is a Y variable partially.

Table 5. Summary of Multiple Regression Test Analysis Results X1 against Y and X2 against Y

No	t-value			
1	Variable	t-test	t-table	Sig.
2	$X_1 \rightarrow Y$	6,966	1,969311	0,000
3	$X_2 \rightarrow Y$	<u>2,726</u>	<u>1,969311</u>	0,007

Source: Output SPSS v.25 Primary Data that has been processed

Based on the results of the processed data, it shows that online learning on the implementation of learning has a tount value of 6.966 > ttable 1.969311 or a p-value of 0.000 <0.05. Then role of parents the implementation of learning has a value of tount 2.726 > ttable 1.969311 or p-value 0.000 <0.05. So it can be concluded that Ha is accepted and Ho is rejected. Means that partially online learning has a positive and significant effect on the implementation of learning. And also partially the role of parents has a positive and significant effect on the implementation of learning.

Simultaneous Test (F Test)

The F test is used to determine whether all independent variables have a simultaneous or joint effect on the dependent variable. If Fcount<Ftable and sig<0.05 then Ho is accepted. If Fcount>Ftable and sig>0.05 then Ho is rejected. So that means that there is a simultaneous influence between the independent variables on the dependent variable.

Table 5. Summary of Multiple Regression Analysis Results X1 and X1 against Y

No	Model	Degrees of	Simultaneous	Sig
		Freedom	(F)	
		(Df)		
1	Regression	2	51,055	0,000
2	Residual	225	-	-

Source: Output SPSS v.25 Primary Data that has been processed

Based on the results of the p-value of 0.000 < 0.05. So it can be concluded that Ho is rejected and Ha is accepted. So that means that together there is the influence of Online Learning and the Role of Parents the Implementation of Learning.

D. DISCUSSION

Online learning has a positive and significant impact on the implementation of student learning. The results of this study are in line with Hennilawari & Hartini, (2020) that online learning is quite effective during the Covid-19 pandemic condition by giving assignments to get good learning outcomes. In Partono et al.'s research, (2021) the implementation of learning 4C skills in improving strategies during the learning process by giving students freedom of opinion, discussion, and collaboration.

The role of parents has a positive and significant influence on the implementation of student learning. Supporting the results of research (Haerudin et al., 2020) that parents' homes feel they can strengthen their relationship with their children and the values obtained by children are still relatively good, then as parents can see the development of their children in learning. (Agustian, 2018) the results of his research show that there is a positive influence on the implementation obtained during the learning process.

Online learning and the role of parents have a positive and significant effect on the implementation of student learning. This means that online learning that is carried out effectively at home during pandemic conditions and the role of parents in assisting learning has an impact on increasing the implementation of learning obtained by students which consist of increasing students' ability to communicate, collaborate, be creative, and think critically. Herliandry et al., (2020) online learning is an effective solution during the pandemic to activate classes even though schools are closed. Information technology during learning during the Covid-19 pandemic is important with it as a

medium and connecting science with the real world to master information technology, communicate and collaborate (Sriyanto, 2021). Conducting online learning makes parents have the implementation of operating applications to support learning (Sukoco, 2020).

E. CONCLUSION

Based on the results of research and discussion, the implementation of learning to students during the learning process by instilling 4C skills (critical thinking, communication, collaboration, and creativity can develop the abilities that exist in students. Online learning and the role of parents have a positive and significant impact on the implementation of student learning during the covid-19 pandemic.

Recommendation

Parents and teachers should continuously motivate and pay attention to their children during online learning to be effective and efficient. The results of this study can add references for future researchers by adding other variables related to factors that affect online learning the teacher's role and using different analytical techniques SEM or PLS.

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