IMPLEMENTATION OF *GOOGLE CLASSROOM* AS MEDIA IN ELEMENTARY SCHOOL TEACHER EDUCATION UNIVERSITAS PASUNDAN

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Abstrak

Penelitian ini membahas tentang penggunaan media *google classroom* pada mahasiswa PGSD FKIP Unpas. Penggunaan media dalam pembelajaran sangat penting dalam mencapai tujuan pembelajaran yang tersurat dalam RPS yang telah dibuat oleh dosen sebelumnya. Penelitian ini bertujuan untuk mendapatkan gambaran bagaimana penggunaan media *google classroom* dalam pembelajaran yang berpusat pada mahasiswa PGSD semester III Tahun Akademik 2018/2019 yang diterapkan pada mata kuliah Strategi Pembelajaran di SD. Metode penelitian ini adalah quasi eksperimen dengan analisis data menggunakan uji *paired t test* dengan program *SPSS versi 21.0 for window*. Subjek dalam penelitian ini semua mahasiswa PGSD semester III di Kelas D yang berjumlah 30 orang. Pelaksanaan penelitian ini berupa siklus yang terdiri atas *plan, do,* dan *see*. Berdasarkan analisis data, didapatkan hasil penelitian bahwa $t_{hitung} = 22,122 > t_{tabel} = 1,699$, ini berarti H_0 ditolak dan H_1 diterima. Sehingga dapat disimpulkan bahwa terdapat pengaruh penggunaan media *google classroom* pada mata kuliah Strategi Pembelajaran SD pada mahasiswa PGSD FKIP Unpas dilaksanakan sesuai dengan tahapan *plan, do,* dan *see*. Dengan adanya tahapan tersebut menantang dosen untuk merancang pembelajaran semenarik mungkin sehingga kualitas dan hasil proses pembelajaran akan meningkat dan menuntut dosen terus melakukan inovasi pembelajaran dalam rangka menunjang peningkatan profesionalitasnya selaku pendidik.

Kata Kunci : *media google classroom, Pendidikan Guru Sekolah Dasar Unpas, dan Strategi Pembelajaran SD*

Abstract

The aim this research are the using of *google classroom* as media learning students of Elementary School Teacher Education at Universitas Pasundan. The use of media in learning is very important to achieved the explicit learning objectives in lesson design that have been made by lecturers. This study to get an overview in third semester of Academic Year 2018/2019 which are applied to the Learning Strategy subject in elementary school. The research method is quasi-experimental with analysis data used a *paired t test with SPSS program versi 21.0 for window*. Subjects is a students of PGSD semester III in Class D, amounting to 30 people. The implementation of this research is in the form of a cycle consisting of plan, do, and see. Based on data analysis, the results is $t_{hitung} = 22,122 > t_{table} = 1,699$, then H_0 rejected and H_1 accepted. It can be concluded that there are significant the used google classroom media in Learning Strategies subject in student Elementary School Teacher Education at Universitas Pasundan are carried out in accordance with the stages of plan, do, and see. The existence of these stages challenges the lecturers to design learning as interesting as possible so that the quality and results of the learning process will increase and demand that the lecturers continue to innovate learning in order to support the improvement of their professionalism as educators

Keywords: *google classroom media, Elementary School Teacher Education at Unpas, and Learning Strategy Subject.*

INTRODUCTION

Learning is the most important activity in the education process. The study is an important factor in determining the quality of a person's life into implementation life skills can be held after finish of the learning process. In a learning process in elementary Learning Strategies courses more passive, due to the characteristics of the course contains a number of concepts, materials, and principles that are affected by the legislation in force. Beside the delivery conducted by a teacher only with lectures, so that consequence in these lectures tend unattractive and make the students bored, lazy, and sleepy when getting the lecture.

Based on the observation result, the authors as a professor wants to create a fun learning environment and actively involve students in the lecture. Therefore, in the learning process, there are two aspects of the most important during the learning process, the method of teaching and teaching media. The learning method is an effective and efficient strategy in delivering course material to students with the intention to achieve the learning objectives. So before the learning process, a teacher must determine the approach and methods to be used must be adapted to the learning objectives and the matter that will be the object of learning to learning objectives that have been developed can be achieved.

In addition to the method, media also has a role as a learning tool (teaching aids) which is used to help the introduction or explanation of the meaning of a concept in order to facilitate and enhance the learning process and result. Learning media can also improve and direct the child's attention so that

it can cause learning motivation and independence of their own students to study according to their ability and interest. Both aspects are an invaluable tool in the learning process in achieving the learning objectives as well as being prepared in Lesson Plan.

Learning based on Information technology or Learning Management System (LMS), will provide best experience for teacher and student during a learning process. The learning model such as this is one of the innovative learning model based on e-learning. A system to manage the learning process that contain integrated system between the models, materials, media, evaluation between teachers and students developed. Many LMS developed by the developers software, such as Moodle, Edmodo, as well as websites such as Quipperschool, Kelase and etc. No exception, internet giant, Google also has a free LMS called Google Classroom. Required to perform google classroom-based learning process by registering via e-mail facility with its own domain.

Learning media used in this study using the application "google classroom". Google classroom is a free android application device for the users of google apps for education that includes Gmail, drive, and docs. Google classroom is designed to help lectures and students in the digital learning process without limits of time and space. In other words, Google Classroom trying to "move" into class real into the online classroom.
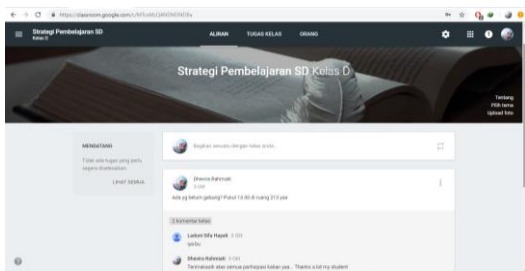
Figure 1 *google classroom learning media*

The benefits of using google classroom learning media, among others:

a. Paperless learning system

Allow students to work and collect assignments without the use of paper, so that the teacher can make an assignment by the due date will automatically be added to the class calendar that is set lecturers and kept up to date so that students can know when a task is to be done so that the task was awarded a students more regular and duty of each student automatically stored on google drive.

b. Practical and time saving

It is said to be practical because give a wide opportunity for students to keep learning wherever, if the student was unable to attend the learning process because of sick or for some reason.
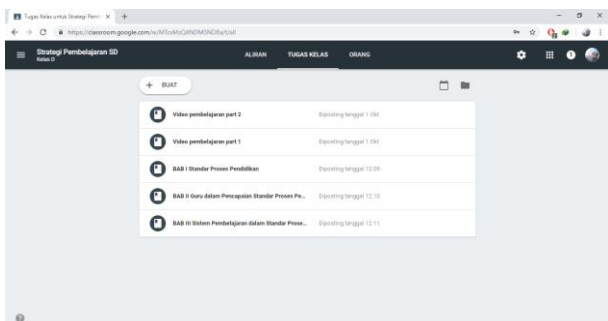

Figure 2 *uploaded teaching materials as a learning resource*

c. Distance learning

Google Classroom can also bring together students and teachers through video call google hangout. For example, when the teacher inviting keynote speaker to provide material but the keynote speaker can not be present on the spot, face to face online through video, then learning is still running clearly. The existence of these learning systems are interesting and effective help teachers or students who do not have much time to meet face to face and provide a different experience than usual.

d. Rapid circulation resources of information

Rather than to send information resources to each student by email, teachers should only have to access Google Classroom application and distribute resources and additional materials to the link, so that students can be better understand the material and run faster multimedia access, In Google Classroom features can post the tasks that have been used previously and can copy it later converting it for reuse.

e. Increase cooperation and communication

On google classroom there is a feature called Class Stream that allows students and teachers can interact without limited in the classroom so that the teacher can send question and ask (Q & A) to the class for discussion with other students. Not only in the form of the text, teachers can also send question in the form of video or article then asked students to analyze it. [1].
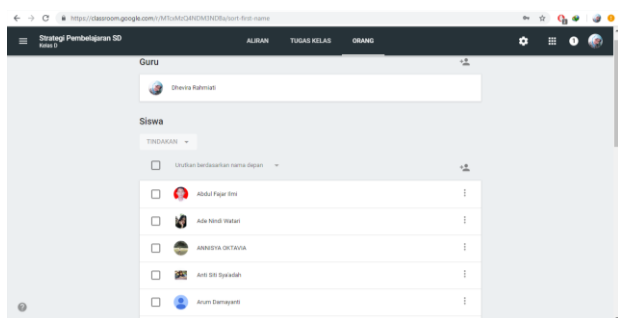
Figure 3 *teacher and students involved in google classroom*

By using Google Classroom is possible to perform an efficient online collaboration. If there are students who need help because of difficulty understanding a task or want to learn more about a particular topic, they can get feedback directly from their virtual classmates. Basically,Google Classroom improve social learning aspects of online education allows students to benefit from the learning experience and skills of their colleagues in order to achieve the learning objectives.

The learning objectives of student results in the RPS include cognitive, affective, and psychomotor. But the main focus of this research is a cognitive especially mastery of concepts. Mastery of concepts here regarding the ability of students to understand the concepts, principles, and problem solving as the act of learning outcomes both in speech and in writing, so that people really understand what is delivered by using his own words. With the ability of students to describe or define, then the student has to understand concept or principle of a lesson in spite of the explanation given have a sentence structure that is not equal to a given concept but mean the same. Cognitive learning aims to improve students' understanding of concepts learned.

To determine the extent of students' concept of mastery level, so in this study carried out the test. Test to measure how much or what percentage of learning objectives achieved after learning process is a post-test or the final test. It called a post-test because before starting the learning process is conducted the initial test or pre-test. The usefullness the test to be taken into consideration in fixing the plan and the learning process is also called as feedback to improve the quality of learning [2].

METHODS

This research method is a quasi-experimental with a pretest and posttest design group. The population in this study were students PGSD FKIP Unpas at third Semester Academic Year 2018/2019 were taking courses in Learning Strategy subject at elementary school. Samples were taken using a convenience sampling technique, which means that the subject is determined by the researchers based on the convenience of researchers in conducting research that students PGSD Semester III Class D is an amounting to 30 people.

Data collection techniques by a test of mastery concepts, observation, and documentation. Mechanical testing data was analyzed by paired t test using SPSS version 21.0 for windows. This test aims to see the difference in the value of pretest and posttest of students in the subject Learning Strategy subject at elementary school. Implementation of this research is a lesson study cycle consist of plan, do, and see.

RESULT AND DISCUSSION

In this research, data processing in the form of quantitative data to test the hypothesis by using paired t test. Pretest and posttest results data is processed using SPSS version 21.0 for windows.

A. Result

1. Correlation test

The aim correlation test here to determine the degree of correlation between each variable, both the dependent variable and the independent variables in the study. The dependent variable is learning outcomes student are seen from the results of pretest and posttest, and the independent variable is the used google classroom learning media.

Table 1
Correlation Output *Pretest* dan *Postest*
Paired Samples Correlation

	N	Correlation	Sig.
Pair 1 Pretest & Posttest	30	.800	.000

According to the table 1, it can be seen that there is a correlation of 0.800. It mean can be concluded is a correlation great and strong and positive sign in using google classroom learning media in learning outcomes in Strategies subject at elementary school.

2. t test

The next test is the mean similarity test with t test through SPSS version 21.0 for windows. The hypothesis formulated in the form of statistical hypothesis (one side test), as follows:

$$H_0: \mu_1 = \mu_2$$
$$H_1: \mu_1 \neq \mu_2$$

Information:

Ho   : No different significant knowledge and abilities of students at the pre test and post test result in Learning Strategy subject at elementary school

H_1 : There are different significant knowledge and abilities of students at the pre test and post test result in Learning Strategy subject at elementary school

The t-test results shown in Table 2.

Table 2
t test output *Paired Samples Test*

		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower	Upper			
Pair 1	Postest - Pretest	3.000	.743	.136	2.723	3.277	22.122	29	.000

Based on the calculations, so t_{hitung} is 22,122. While significance level 5% (0,05), $t_{1-\alpha}$ is the name t_{tabel} = 1,699. The looking at the reslut t_{hitung} and $t_{1-\alpha}$ it is seen that t_{hitung} = 22,122 > t_{tabel} = 1,699, so H_0 rejected and H_1 accepted. It can be concluded that there are significant the used google classroom learning media in Learning Strategies subject at elementary school.

B. Discussion

Some things that will be discussed include learning outcomes in the form of mastery concepts, the influence of used google classroom learning media, and Learning Strategies subject at elementary school.

1) Learning outcomes

Based on the analysis, it can be concluded that this research declared successful seen have a

correlation consist of 0,800, which means the used google classroom learning media in learning outcomes in Learning Strategies subject at elementary school. This is consistent with previous research conducted by [3] that the application google classroom as a media to improve learning outcomes characterized by the average number of students in the experimental class at 91.95 compared with 79.07 for the control classes. Results of study here is closely connected with the mastery of concept which is measured through an evaluation of the pretest and posttest.

According [4] that the mastery of concepts derived from the learning process, while learning is a cognitive process that involves three processes are almost same time acquire new information, and transformation of information, and to test the relevance of knowledge. Someone said to master of concept if the person understood the concepts learned based on the characteristics possessed by the object so as to explain using their own words according to their knowledge.

From the above explanation can be concluded that google classroom learning media used in this research can affect student learning outcomes significantly visible from the correlation test, particularly on the matter in the Standard Process Learning Systems Education in Learning Strategy subject at elementary school.

2) *Google Classroom Learning Media*

In accordance with Law No. 14 of 2005 on teachers and lecturers clause 10 that one of the competencies teachers must be owned by a teacher is professional competence. Its capabilities include the ability of teachers to support the performance as a teacher starts from the planning of learning, implementing the learning process, and evaluate learning appropriate to the learning objectives [2]. Therefore, should the prospective teacher should be utilizing a variety of media, resources, strategies, and learning methods in order to create meaningful learning.

The used of google classroom provide insight to students before they double module but by downloading the material, so that students can learn the material at any time. The used google classroom learning media can improve students' learning activities are characterized by increased activity of the students asked the teacher higher after the application google classroom learning media. This is in line with the results of interviews with teachers as users google classroom as a media online learning outside the classroom declare good agreement and said google classroom is easy to use and help save time and energy.

Therefore, the used google classroom learning media is a professional capability of teachers in supporting the success of the learning process. This is consistent with the results of the t test in this research that $t_{hitung} = 22,122 > t_{tabel} = 1,699$, which means H_0 rejected and H_1 accepted. It can be concluded there are significant the used google classroom learning media in Learning Strategies subject at elementary school that enables students to be better understand the concept of matter in the Standard Process Learning Systems Education.

3) *Learning Strategies subject at elementary school*

The implementation stage research through Lesson Study cycle that includes the plan, do, and see. The stages are as follows:

a. Stage Plan

Activities undertaken during the preparation, include:

1) Develop learning tools that include design chapter and lesson design.

2) Preparing materials and learning media required form of application google classroom.

3) Preparation of instruments, including diagnostic tests with multiple choice questions form as much as 10 questions.

b. Stage do

Activities undertaken during the implementation, include:

1) Testing instruments previously prepared in the form of the pre-test are useful to determine the ability of the initial knowledge of concepts students material concepts Learning Systems in Education Process Standards.

2) The learning process with google classroom instructional media on material Learning System in Educational Process Standard contains concepts, materials, and principles of the educational process. The material of the Learning Systems in Processing Standards Education describes the understanding of the system, the usefullness of the system, the characteristics of a system, the benefits of learning systems in the system of the educational process, factors that influence the learning system, the components of the learning system, and

learning videos are uploaded to the google classroom learning media.

3) At the end of learning to do a post-test which is intended to determine the level of mastery of concept of student success after the learning process.

c. Stage See

In the final stage of research, the activities to be carried out, among others:

1) Data processing results of pretest and posttest in learning process.

2) Discussion of the results of research using paired t test through SPSS version 21.0 for windows.

3) Formulating conclusion based on the results obtained from the processing of data that are matched with the research hypothesis.

The preparation of learning tools for the next cycle as an improvement from the previous cycle.

ACKNOWLEDGMENT

CONCLUSION

Based on the results of data analysis and hypothesis research, it can be concluded that there are significant learning used google classroom media in Learning Strategies subject at elementary school is understanding the material in the Standards Process Learning Systems Education through a learning process that involves of lesson study cycle consisting plan, do, and see.

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