



## Learn from Home using Youtube Platform in Teaching Competency Development Learning for Biology Education Students

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Received: 15 Januari 2022 Revised: 17 April 2022 Accepted: 30 April 2022

### Abstract

Covid-19 causes many impacts on aspects of life, one of which is the education aspect. This study aims to analyze the learn from home strategy during the Covid-19 pandemic using the Youtube Platform in teaching competency development for biology education students. The method used in this research is a descriptive method, using a questionnaire on student responses to the learning process. The sample used was 6th semester students of Biology Education, FKIP Untirta who took the Teaching Competency Development (PKM) course. The research instrument used is a questionnaire with a Likert scale regarding the responses to the learning process of biology education students. The results of this study showed that learning to use the Youtube Platform when learning from home during the Covid-19 pandemic is an alternative that can be used in the learning process. The conclusion, YouTube platform can be used as an effective and efficient.

**Keywords:** Covid-19; Basic Teaching Skills; Learn From Home; Youtube

### INTRODUCTION

Corona Virus Disease 2019 (Covid-19) is a respiratory tract infection caused by the corona virus. This respiratory tract infection was first discovered in December 2019 in Wuhan, China (WHO, 2020). This virus has new phylogenetic characteristics that are different from the previously existing corona viruses. On January 3, 2020 the virus was named 19 n-Cov (2019 novel coronavirus). Transmission of Covid-19 from human to human through direct inhalation of contaminated droplets released into the environment through sneezing or coughing. In addition, it can also be in direct contact with patients through the mouth, nose, and eye mucus. The virus then enters the respiratory tract. Covid-19 has an incubation period of about 14 days and usually Covid-19 symptoms will appear on the third to seventh day. Symptoms of Covid-19 that appear are dry cough, fatigue, fever 38°, and shortness of breath (Putra *et al.*, 2020). The existence of a very fast distribution has an impact on the health and safety of various family parties, especially the elderly and people who have a history of other diseases so that they become disease complications. To

minimize the wider distribution, the government has imposed a social distancing policy and in some countries a lockdown has been imposed (Ramdayanti, 2020).

Covid-19 causes many impacts on aspects of life, one of which is the education aspect. The social distancing policy causes limited interaction between educators and students directly in the classroom. Students and lecturers must continue to follow the rules and so that the learning process continues effectively and efficiently through Learn From Home (LFH). LFH is carried out to anticipate the Covid-19 pandemic and the implementation of the education system so that the learning objectives conveyed by teachers can still be accepted and carried out properly.

At the time of LFH, educators must be able to arrange appropriate strategies so that the learning process can take place well like the previous face-to-face learning. There are many strategies that can be used when learning online, including using various online-based applications, either synchronously or asynchronously. During the distance learning pandemic (PJJ), students can still interact with teachers using several applications such as google classroom, video conference, telephone or live chat, zoom or via WhatsApp group (Sadikin, 2020). According to Fauzi (2020) despite the pandemic, students must continue to study with enthusiasm by applying a combination of online and face-to-face modes.

Teaching Competency Development (PKM) is one of the courses in the Department of Biology Education, FKIP, University of Sultan Ageng Tirtayasa. This course trains students in developing basic classroom teaching skills. Basic teaching skills can be seen when students practice micro teaching in class. However, because of LFH, students cannot practice micro teaching directly in the classroom, so it will be difficult to observe basic teaching skills. These basic teaching skills can usually be seen directly when students teach in the micro teaching room. The existence of an LFH policy does not allow this process to run. One strategy that can be used is through the use of various applications available online, one of which is through the Youtube Platform. Youtube Platform can be a good medium in displaying a video show in detail. Youtube can be used as an interactive information media image or a medium for conveying personal aspirations (Chandra, 2017). Students can continue to apply their basic teaching skills during teaching practice, although not face-to-face, but by recording the teaching process and uploading it via Youtube. This strategy is expected to be able to overcome the Covid-19 pandemic in the implementation of social distancing. Therefore, it is necessary to conduct related research to analyze the learn from home strategy during the Covid-19 pandemic using the Youtube Platform in learning to develop teaching competencies for biology education students.

## **METHOD**

The research method used in this research is descriptive method. The descriptive method is related to the study of phenomena in more detail (Siyoto & Sodik, 2015). The research will describe in detail the responses of students in the learning process using Youtube. The population in this study were all Biology Education students, FKIP Sultan Ageng Tirtayasa University. The research sample used was 6th semester students who took Teaching Competency Development (PKM) courses totaling 126 students. The research was conducted when students were studying PKM courses, starting from August - October 2020 at Sultan Ageng Tirtayasa University. The research instrument used was a questionnaire response to the learning process of biology education students. Questionnaire sheets are used to determine student responses to the learning process with the learn from home strategy using the Youtube Platform. On Youtube, students carry out teaching practices that display basic teaching skills.

The stages of the research procedure used started from conducting a literature review related to the phenomenon of problems that occur in the world of education, about the importance of the right learn from home strategy to anticipate the spread of Covid-19 and making observations about

the lack of quality learning carried out in the midst of social distancing policies. On Youtube, students carry out teaching practices that display basic teaching skills.

Data analysis techniques include data analysis from research instruments, namely the results of a questionnaire sheet. The questionnaire consists of three aspects with eight statements, namely student enthusiasm in using Youtube consisting of two statements (student enthusiasm for micro teaching for the first time through Youtube and student enthusiasm through Youtube in developing basic teaching skills), effectiveness and efficiency in using Youtube consists of three statements. (students focus on Youtube because it can be replayed (replay) video micro teaching, the ease and simplicity of using Youtube, and the flexibility of using Youtube is not limited by time), and the attractiveness and advantages of Youtube as a distance learning medium which consists of three statements (student understanding on basic teaching skills even though they learn from home, discussion activities continue even though they learn from home, and students can listen directly to basic teaching skills through micro teaching when learning from home)

The student response questionnaire on the learning process is arranged based on the Likert scale. The following is the determination of the value on the Likert scale, which can be seen in Table 1:

**Table 1.** Criteria Likert Scale Score

<b>Response Statement</b>	<b>Score</b>
Strongly agree	4
Agree	3
Disagree	2
Strongly Disagree	1

The total score obtained is then converted into a percentage using the following formula: (Purwanto, 2009):

$$NP = \frac{R}{SM} \times 100\%$$

Description:

NP = Percent value sought/expected

R = Raw score obtained by students

SM = Ideal maximum score of the number of questionnaire

100% = Fixed number

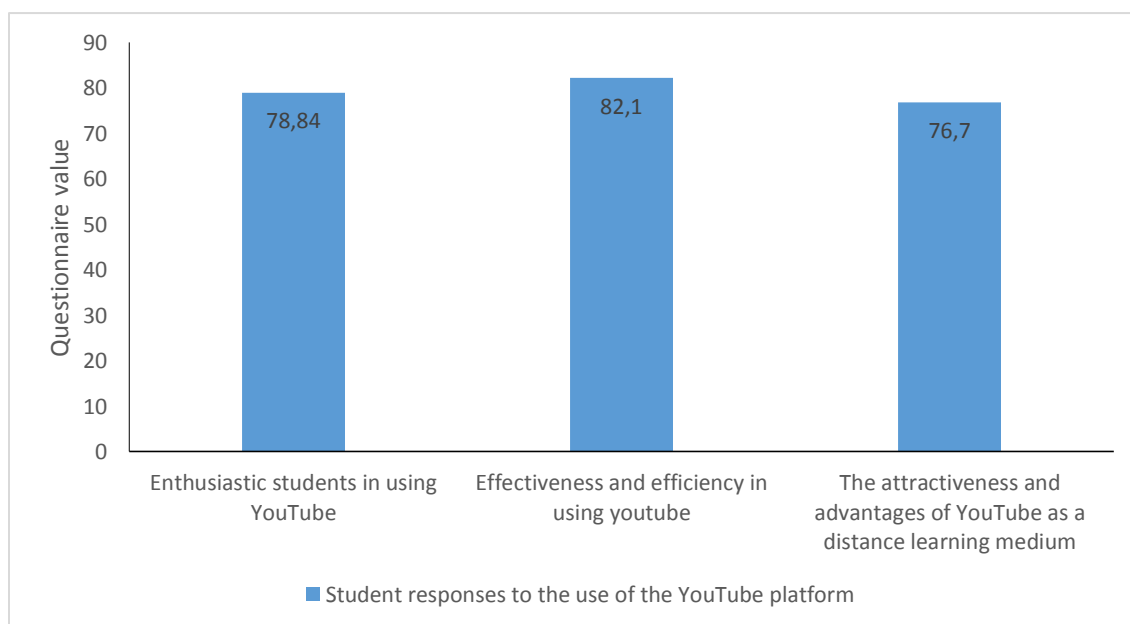
## **RESULT AND DISCUSSION**

Corona virus disease 2019 (Covid-19) is one way to accelerate the development of the application of technology in the field of education. When learning from home (LFH) educators and students are required to be able to adjust the learning process as it should so as to create a learning atmosphere that is familiar to students. Various applications are available to be able to apply the appropriate learning process, which can take place face-to-face (synchronously) or asynchronously. Educators can set the right strategy so that students can still accept and understand the material they are learning easily even though they are not in the classroom.

Teaching competency development (PKM) is a subject where one of the demands is that students understand various basic teaching skills, public speaking, teacher code of ethics, and apply them to teaching practice (micro teaching). Micro teaching activities are usually carried out directly to see the basic skills of teaching students, but this pandemic has directed that basic teaching skills are still mastered and applied by students. The strategy that can be used when Learn From Home (LFH) is through the use of various applications available online, one of which is through the Youtube Platform. Students who take PKM courses can continue to apply their teaching skills even though not face-to-face, but by recording their teaching process independently and uploading it via Youtube. In the process of making videos, teachers teach without students, it is just as if there are students who are listening to the explanation. This is done because it is still in terms of social distancing.

On Youtube, the learning process and the application of teaching skills that are not face-to-face give students the flexibility to design and apply basic teaching skills. Basic teaching skills are skills that must be possessed by teachers from opening to closing learning, providing material explanations, managing classes, and teacher skills in providing variations in learning. The materials needed in teaching are learning tools which include lesson plans, worksheets, learning media, teaching materials, and assessment instruments. Teachers must make preparations in teaching, such as teaching materials and materials, learning media, and how teachers manage and control the class (Rusmaini, 2019).

Basically, students' teaching skills can be developed, although there are some indicators of certain aspects that are not visible so that the assessment is not fulfilled. To find out student responses to the learning from home learning process using the YouTube platform in developing teaching skills, student responses are needed through questionnaires distributed to all teaching competency coaching class groups. Using the Youtube Platform is one way to learn from home when facing the Covid-19 pandemic. This strategy is expected to be able to overcome the Covid-19 pandemic in implementing social distancing policies. Based on the results of the student response questionnaire on the use of the YouTube platform when learning from home to develop the teaching skills of prospective biology teacher students, they are as follows:



**Figure 1.** Percentage of the respons Youtube Platform Utilization Questionnaire when Learn From Home

The results of the questionnaire showed that 78.84% of students were enthusiastic in using Youtube. Students feel excited for the first time doing micro teaching through Youtube because before the pandemic students had time to do micro teaching directly in the micro teaching laboratory. Students have the same comparison when carrying out micro teaching in the lab or via Youtube. When practicing in the lab, students do feel more tension than appearing on YouTube because they interact directly with the students they teach. Through Youtube, students can still develop basic teaching skills because YouTube also clearly displays aspects of basic teaching skills during micro teaching. According to Suradika et al, 2020 Youtube is easy to integrate in distance learning because of its similarity in function with direct explanations and does not require the unity of space and time in learning. The advantage of using YouTube during teaching practice is that they can practice independently and can repeat if there are shortcomings or appearance errors. From these repetitions, students will continue to improve and try to display the best basic teaching skills. Indirectly, students train and hone their skills and it will definitely be stored longer in their memory. Educational paradigm shifts, especially in classroom learning, should follow technological developments, one of which is by utilizing technology through Youtube as a learning medium (Wismaningrum, 2020).

The results of the questionnaire obtained that 82.10% of students felt that their learning was effective and efficient by using Youtube. Students can easily re-listen to the micro teaching that is displayed on YouTube if there is material that is missed or poorly understood by students, so that if there are deficiencies it can be corrected and what is displayed on the show is the skill of explaining the exact content of the material and how it is delivered. The ease and simplicity of how to use Youtube makes students feel happy to learn basic teaching skills through Youtube. YouTube can be a valuable source of information from which we can extract useful learning content (Rani et al., 2015). In addition, students can also study material that is not limited by time, students can listen to Youtube whenever they want, because it is always available on their Youtube channel.

As many as 76.70% of students feel that there is an attractiveness and advantage of Youtube as a distance learning medium. Students can understand basic teaching skills (micro teaching) conveyed by their friends via Youtube even though they have to learn from home. Youtube can be used as an educational tool for young people because it is interesting and there are many unique things that can be obtained from Youtube (Rahmawan et al, 2018). Discussion activities can also continue to run well even though they are hindered by distance, and students also feel that learning through Youtube can directly listen to basic teaching skills through micro teaching when learning from home. Youtube users can comment in the comments column available on every video posted by users, besides that there is also a "like" symbol to like the uploaded and watched video (Stellarosa et al., 2018). The existence of features on youtube makes the display of student teaching more attractive and students can see the assessment of their teaching practice directly because the more "like" and "subscribe" it can be used as an indicator of good teaching practice.

In all aspects, the results of the questionnaire show that the highest percentage value is in the aspect of the effectiveness and efficiency of using YouTube. Ease of access and student habits that exist in the age of technology do not put a burden on students if learning must be carried out online, even for students learning is more interesting and fun. In addition, for students whose learning style is audio-visual, they can easily listen to videos on YouTube and repeat the presentation of the

material. Strategies for utilizing social media such as the Youtube Platform can be used as an alternative.

## CONCLUSION

Based on the results of the study, it was found that the learn from home strategy during the Covid-19 pandemic using the Youtube Platform in teaching competency development for biology education students could be applied as an alternative in learning. The YouTube platform can be used as an effective and efficient distance learning medium in displaying basic teaching skills during micro teaching.

## ACKNOWLEDGMENTS

Thank you to all those who have helped and supported the research, especially for the Department of Biology Education, FKIP, and LPPM of Sultan Ageng Tirtayasa University.

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